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THE MICROTHYRIACEAE

BY

FRANK LINCOLN STEVENS

AND

SISTER MARY HILAIRE RYAN, O.P.

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PREFACE

For a number of years prior to his death, which occurred on the sixteenth day of August, 1934, Dr. Frank Lincoln Stevens, Professor of Plant Pathology at the University of Illinois, was engaged in an intensive study of the Microthyriaceae, parasitic fungi which infest the leaves of tropical and sub-tropical plants. Because of frequent attacks of angina pectoris, Dr. Stevens feared he might not live to complete his manuscript. It was then that he requested the writer to finish his work in the event of his untimely death. Such a request from this eminent scientist, to whom the writer was greatly indebted, could not be refused, especially since she hoped that God would spare him to complete his task.

Three months after Dr. Stevens' death, the manuscript arrived at Rosary College. A note from Mrs. Stevens said that she had found the memorandum of the above request among her husband's papers. It has been a pleasure and a privilege to carry on the work of our beloved Dr. Stevens.

For Dr. Stevens and for myself, I offer our many friends hearty thanks for the valuable encouragement and assistance given in the preparation of this monograph. I desire to acknowledge the cooperation and helpful citicism of Dr. L. R. Tehon of the Illinois State Natural History Survey, who has critically read the entire manuscript. Grateful acknowledgment is also made to Dr. John T. Buchholz, Professor of Botany in the University of Illinois, to Sister Mary Aquinas and Sister Mary Josephine of Rosary College, for their sympathetic insight and friendly suggestions, and to Miss Helen Checkowicz for her assistance in the preparation of the manuscript. I am also under obligation to Sister Mary Timothea who read the proof.

SISTER MARY HILAIRE RYAN, O.P.

Rosary College, River Forest, Illinois

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INTRODUCTION

THE FIRST description of the family Microthyriaceae is given by Saccardo (46)* in 1886. It reads, "simple perithecia superficial, black, membranous to carbonaceous, dimidiate, flattened, context nearly always radiate." This description is entirely accurate, the characters easily recognizable and firmly established. Saccardo placed this family in the Dothideales. Von Höhnel places it in the Perisporiales. Under the latter's leadership critical investigations have been undertaken resulting in a complete evolution in the taxonomy of the group. Chronologically the following five steps are noteworthy:

1913: Theissen and Sydow (76) created a new order, the Hemispheriales, for genera having a superficial, halbert to shield-shaped perithecium.

1915: Atkinson (7) considered the family represented reduced forms derived on the one hand from the Phacidiales, and on the other, perhaps, from the Sphaeriales. He did not definitely place it.

1918: Arnaud (1) said the family belonged to the Pyrenomycetes. He gave as his reason the fact that the asci are localized in particular zones formed by the gelatinization of the sterile cells of the cavity.

1920: Doidge (14), and Ryan (43) three years later, accepted Theissen and Sydow's classification in their taxonomic work.

1931: Clements and Shear (12) created the order Microthyriales.

Such differences as these indicate the development that has occurred since 1886.

This monograph is an effort to bring together the descriptions of genera and species, the record of the host plants, and the citations of original descriptions, so that future taxonomic work may be done more readily.

In preparing this work all data given in the publications listed in the bibliography have been utilized, as well as data from other periodicals in which only one or more species were described. Sources of these scattered data may be found in the citations following specific names of the individual species. They are not included in the bibliography.

*Numbers in parentheses following names of authors refer to items in the bibliography.

KEY TO GENERA

A. No free mycelium.....Subfamily Microthyreae Sacc. and Syd.

I. Hymenium simple:

a. Ascomata rounded:

1. Spores 1-celled, hyaline:
   - Paraphyses present..... 1. Myiocopron
   - Paraphyses lacking..... 2. Peltella

2. Spores 2-celled:
   - (A) Spores hyaline:
     - Ascomata setose..... 3. Chaetothyriopsis
     - Ascomata glabrous:
       - Ascomata grown together..... 4. Calopeltis
       - Ascomata solitary:
         - Astomate..... 5. Microthyriolum
         - Stomate:
           - Ostiole a pore..... 6. Microthyrium
           - Ostiole stellate..... 7. Niesslella
   - (B) Spores dark:
     - Ascomata smooth..... 8. Seynesia
     - Ascomata setose..... 9. Seynesiopeltis

3. Spores 3- or 4-celled:
   - (A) Spores brown:
     - Cells approximately equal..... 10. Scutellum
     - Midde cells larger..... 11. Halbania
   - (B) Spores hyaline:
     - Peristomal setae present..... 12. Caenothyrium
     - Setae lacking:
       - Scutellum dissolving..... 13. Actinomyxa
       - Scutellum persistent:
         - Not lichenicole..... 14. Phragmothyrium
         - Lichenicole..... 15. Micropeltopsis

b. Ascomata linear:

1. Spores 2-celled:
   - (A) Spores hyaline:
     - Paraphyses present..... 16. Lembosidium
     - Paraphyses lacking..... 17. Aulographella
   - (B) Spores dark:
     - Paraphyses present..... 18. Lembosina
     - Paraphyses lacking..... 19. Morenoina

II. Several hymenia in each ascoma:

1. Spores 2-celled, hyaline:
   - Paraphyses lacking..... 20. Thyrosoma
   - Paraphyses present..... 21. Campoa

2. Spores many-celled, dark..... 22. Pycnopeltis

3. Spores muriform:
   - Asci single in peripheral zone..... 23. Stephanotheca
   - Asci not in a peripheral zone..... 24. Pycnoderma

B. Free mycelium present, not membranous....Subfamily Asterineae Sacc. and Syd.

I. Hymenium simple:

a. Ascomata rounded:

1. Spores 1-celled:

(A) Spores hyaline:

Paraphyses present..... 25. Calothyriella

Paraphyses lacking..... 26. Stegothyrium

(B) Spores dark..... 27. Calothyriopeltis

2. Spores 2-celled:

(A) Spores hyaline:

Spores caudate, hyphopodia present..... 28. Caudella

Spores not caudate, hyphopodia lacking:

Ascomata setose..... 29. Mycolangloisia

Ascomata not setose:

Paraphyses present, not mucose..... 30. Calothyrium

Paraphyses present, mucose..... 31. Aphanopeltis

(B) Spores dark:

Hyphopodia present:

Paraphyses present:

Ascomata not mucose-dissolving..... 32. Parasterina

Ascomata mucose-dissolving..... 33. Englerulaster

Paraphyses lacking:

Ascomata mucose-diffluent..... 34. Englera

Ascomata not mucose-diffluent

Mycelial conidia 4-celled, astomate. 35. Clypeolella

Mycelial conidia not 4-celled:

Mycelium setose..... 36. Trichasterina

Mycelium not setose..... 37. Asterina

Hyphopodia lacking:

Ascomata setose, mucose-encrusted:

Paraphyses lacking..... 38. Asteromyxa

Ascomata glabrous, not encrusted:

Mycelium setose..... 39. Thallochaete

Mycelium not setose:

Paraphyses present:

Paraphyses not gelatinous..... 40. Asterinella

Paraphyses gelatinous..... 41. Polythyrium

Paraphyses lacking:

Conidia 4-celled..... 42. Clypeolina

Conidia not 4-celled..... 43. Prillieuxina

3. Spores several-celled:

(A) Spores hyaline:

Paraphyses present..... 44. Halbaniella

Paraphyses lacking..... 45. Beelia

(B) Spores dark:

Paraphyses lacking..... 46. Kriegeriella

Paraphysate nodel cells present..... 47. Platypeltella

4. Spores muriform, reddish..... 48. Yatesula

I. Hymenium simple *(continued)*

b. Ascomata linear:

1. Spores 1-celled, dark..... 49. Lembosiella

2. Spores 2-celled:

(A) Spores hyaline, hyphopodia none:

Paraphyses present:

Paraphyses simple..... 50. Lembosiopsis

Paraphyses branched..... 51. Ptychopeltis

Paraphyses lacking..... 52. Aulographum

(B) Spores dark:

Hyphopodia present:

Hyphopodia intercalary:

Paraphyses present..... 53. Cirsosia

Paraphyses lacking..... 54. Cirsosiella

Hyphopodia not intercalary:

Paraphyses present..... 55. Lembosia

Paraphyses lacking..... 56. Morenoella

Hyphopodia lacking:

Paraphyses present..... 57. Echidnodes

Paraphyses lacking..... 58. Echidnodella

II. Hymenium with one ascus:

a. Spores 2-celled, dark..... 59. Symphaster

DESCRIPTION OF GENERA AND SPECIES

1. MYIOCOPRON Spegazzini

Fungi Arg., Pug. II, no. 142, Anal. Soc. Ci. Argentina 9:278-285. 1880.

Type: *M. corrientinum* Speg., *l. c.*

Characters: No free mycelium, ascomata thin, superficial, membranous or subcarbonous, dark, dimidate, radiate, smooth, circular, ostiolate. Hymenium simple, no epithecium. Asci many, 8-spored, clavate, thick-walled, paraphysate. Spores elliptical, continuous, hyaline.

Literature: Theissen and Sydow, 1917; Theissen, 1913; Saccardo, 1886, vol. 2, p. 659.

Figures: Saccardo, Genera Pyrenomycetes, tab. 12, fig. 16; Oudemans, Champ. Pays Bas, tab. 12, fig. 16, and Rev. Pyren. Batav., tab. 12, fig. 16.

Several species ascribed to the genus Myiocopron may belong to Peltella, as no mention of the presence or absence of paraphyses occurs in the original descriptions. Among these questionable species are: *M. dilatatum, M. cubense, M. granulatum, M. licatense, M. oleandri, M. baccarum, M. pereirae, M. cucurbitacearum.*

The species of Myiocopron are arranged in the order of maximum recorded spore length.

1. Myiocopron lycopodii Rostr., Beiheft. Bot. Centralbl. 3:3. 1896. On Lycopodium, Lycopodiales. Asci 25 x 5 μ, spores 6 x 1.5 μ. Syll. Fung. 11:379.

2. Myiocopron bacarrum (Rehm) Sacc., Syll. Fung. 2:661. 1886. *Microthyrium baccarum* Rehm, Hedw. 21:122. 1882. On Juniperus, Pinaceae. Asci 30 x 6 μ, spores 8 x 2 μ.

3. Myiocopron oleandri (Pass.) Sacc., Syll. Fung. 2:659. 1886. *Microthyrium oleandri* Pass., Micr. Ital., no. 1, Rev. Myc. II, 1880. On Nertium, Apocynaceae. Asci 25 x 12 μ, spores 7-9 x 3-3¼ μ.

4. Myiocopron litorale Speg., Bol. Acad. Nac. Ci. Cordoba 25:88. 1921. On Rhodostachys, Bromeliaceae. Ascomata 150-180 μ, asci 75-80 x 5-6 μ, spores 10 x 2 μ.

5. **Myiocopron hederae** (Feltg.) Stev., n. comb. *Phragmothyrium hederae* v. Höhn., Ber. Deutsch. Botan. Ges. 37:111. 1919. *Mycrothyrium hederae* Feltg., Vorstud. Pilzfl. Luxemb., Nachtr. 3:310. 1903. On Hedera, Araliaceae. Spores 10 x 2.7-3.5 μ. Syll. Fung. 17:263. This species is removed from Phragmothyrium on account of its continuous spores.

6. Myiocopron licatense (Pass. and Beltr.) Sacc., Syll. Fung. 2:661.

1886. *Microthyrium licatense* Pass. and Beltr., Hedw. 22:111. 1883. On Opuntia, Cactaceae. Spores 10 x 3 μ.

7. Myiocopron stigmatostalycis P. Henn., Hedw. 48:11. 1908. On Stigmatostalycis, Orchidaceae. Ascomata 250-300 μ, asci 45-60 x 13-18 μ, spores 8-13 x 4.5-5.5 μ. Syll. Fung. 24:422.

8. Myiocopron cubense (B. and C.) Sacc., Syll. Fung. 2:661. 1886. *Microthyrium cubense* Berk. and Curt., Cuban Fungi, no. 740, Jour. Linn. Soc. London, part 2, 1868. On Dipteryce (congo bean), Leguminosae. Spores 12-13 x 6-7 μ.

9. Myiocopron granulatum (B. and Br.) Sacc., Syll. Fung. 2:659. 1886. *Micropeltis granulata* B. and Br., Fungi Ceylon no. 1139, Jour. Linn. Soc., part 2, 14. 1875. On Caesalpinia, Leguminosae. Spores 12-13 x 7.5 μ.

10. Myiocopron pereirae F. Tassi, Bull. Lab. Ort. Bot., Siena, p. 142, tab. 11, fig. 4. 1899. On Myroxylon, Leguminosae. Ascomata 500 μ, asci 50-60 x 20 μ, spores 12-14 x 8-10 μ. Syll. Fung. 16:634.

11. Myiocopron ilicinum (De Not.) Sacc., Syll. Fung. 2:660. 1886. *Microthyrium ilicinum* De Not., Erb. Cr. It., Ser. 1, n. 994, in Tassi, Fl. Sen. p. 61. 1862. On Quercus, Fagaceae. Spores 15 μ long.

12. Myiocopron pandani v. Höhn., Ann. Myc. 17:115. 1919. On Pandanus, Pandanaceae. Ascomata 200-500 μ, often elongate, asci 26-30 x 18-20 μ, spores 12-15 x 5-8 μ. Syll. Fung. 24:422.

13. Myiocopron corrientinum Speg., Fungi Arg., Pug. II, no. 142. 1880. On Oncidium, Orchidiaeceae. Ascomata 300-400 μ, asci 70 x 20 μ, 8-spored, spores 13-16 x 7-8 μ. Syll. Fung. 2:659.

14. Myicopron freycinetiae (Stev. and Ryan) Arn., Ann. Crypt. Exot. 4:88. 1931. *Peltella freycinetiae* Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:69. 1925. On Freycinetia, Pandanaceae. Ascomata 280 μ, asci 55-60 x 29-26 μ, spores 5-7 x 12-17 μ.

15. Myiocopron palmarum Wint., Hedw. 25:25. 1895. On Palmae. Ascomata 120-160 μ, asci 40-50 x 23-26 μ, spores 16-17 x 8-9 μ. Syll. Fung. 9:1053.

16. Myiocopron umbilicatum Speg., Bol. Acad. Nac. Ci. Cordoba 23:496. 1919. On Bignoniaceae. Ascomata 150-250 μ, asci 50 x 30 μ, spores 18 x 11 μ. Syll. Fung. 24:422.

17. Myiocopron dilatatum (B. and Br.) Sacc., Syll. Fung. 2:659. 1886. *Pamphidium dilatatum* B. and Br., Fungi Ceylon, no. 1134, Jour. Linn. Soc., part 2, 14. 1875. On Palmae. Spores 20 x 15 μ.

18. Myiocopron crustaceum Speg., Fungi Guar., Pug. I, no. 293, Anal. Soc. Ci. Argentina 16. 1883. On Palmae. Ascomata 150-180 μ, asci 40-50 x 15-20 μ, spores 15-20 x 7-8 μ. Syll. Fung. 9:1053; Ann. École Nac. Agr. Montp. 18:199. 1920.

19. Myiocopron yerbae Speg., Ann. Mus. Nac. Buenos Aires, Ser. 3, 10:130. 1909. On Ilex, Aquifoliaceae. Ascomata 75-100 μ, asci 60-70 x 25-30 μ, spores 26-28 x 12-14 μ. Syll. Fung. 22:514.

20. Myiocopron casearíae Speg., Ann. Mus. Nac. Buenos Aires 23:79. 1912. On Casearia, Flacourtiaceae. Ascomata 350-500 μ, asci 80 x 15-18 μ, spores 25-30 x 5-6 μ. Syll. Fung. 24:422.

21. Myiocopron ramulare (Ell.) Speg., Ann. Myc. 10:194. 1912. *Asterina ramularis* Ell., Bull. Torr. Bot. Club 9:20. 1882. On Laurus, Lauraceae. Syll. Fung. 16:634.

22. Myiocopron cucurbitacearum Rehm, Hedw. 39:226. 1900. On Cucurbitaceae. Ascomata 1-1½ mm., asci 20 x 8-9 μ. Syll. Fung. 16:634.

2. PELTELLA Sydow

Annales Mycologici 15:237. 1917.

Type: *P. conjuncta* Syd.

Characters: Ascomata superficial, dimidiate, inverse-radiate, often confluent. No free mycelium. Asci ovate, 8-spored, aparaphysate. Spores 1-celled, hyaline. *Actinothyrium* appears to be a conidial stage. The basis for the separation of this genus from Myiocopron is the absence of paraphyses, though Sydow described the type species as "mucose paraphysate."

Literature: Theissen, 1913; Saccardo, 1926.

1. **Peltella validivianum** (Speg.) Stev., n. comb. *Myiocopron valdivianum* Speg., Fungi Chilensis 103. 1910. On Eugenia, Myrtaceae. Ascomata 75-90 μ, asci 27-30 x 6 μ, spores 8 x 2 μ. Syll. Fung. 22:514.

2. Peltella insignis Toro, Jour. Dept. Agr. Puerto Rico 13:233. 1930. On Bromelia, Bromeliaceae. Ascomata 100-120 μ, asci 42-49 x 13-15 μ, spores 10-12 x 5-6 μ.

3. **Peltella argentinense** (Speg.) Stev., n. comb. *Myiocopron argentinense* Speg., Ann. Mus. Nac. Buenos Aires 12:423. 1909. On Foeniculum, Umbelliferae. Ascomata 120 μ, asci 50 x 9-10 μ, spores 14-15 x 3-3½ μ. Syll. Fung. 22:515.

4. Peltella conjuncta (H. and P. Syd.) Syd., Ann. Myc. 15:237. 1917. *Myiocopron conjunctum* H. and P. Syd., Ann. Myc. 12:200. 1914. On Daemonorops and Calamus, Palmae. Ascomata 100-160 μ, asci 28-32 x 20-25 μ, spores 14-17 x 7-8 μ. Syll. Fung. 24:423.

5. **Peltella millepunctata** (Penz. and Sacc.) Stev., n. comb. *Myiocopron millepunctatum* Penz. and Sacc., Malpighia 11:524. 1897. On Psilotum, Pteridophyta. Ascomata 300 μ, asci 45-50 x 15 μ, spores 18 x 6-7 μ. Syll. Fung. 14:687.

6. **Peltella bakeriana** (Rehm) Stev., n. comb. *Myiocopron bakerianum* Rehm, Philipp. Jour. Sci. c. Bot. 8:393. 1913. On Passiflora, Passifloraceae. Ascomata 250-300 μ, asci 50 x 10-12 μ, spores 12-15 x 5 μ.

7. **Peltella affine** (Penz. and Sacc.) Stev., n. comb. *Myiocopron affine* Penz. and Sacc., Malpighia 11:525. 1897. On Monocotyledons. Ascomata 330-350 μ, asci 45-50 x 18-22 μ, spores 15 x 7 μ. Icones F. Jav. tab. 40, fig. 4. Syll. Fung. 14:1899.

8. **Peltella vaccinii** (De Not.) Stev., n. comb. *Myiocopron vaccinii* Sacc., Syll. Fung. 2:660. 1886. *Microthyrium vaccinii* De Not., Micr. Ital., Dec. 4, p. 22, fig. 4. 1842. On Vaccinium, Ericaceae. No measurements given.

9. **Peltella smilacis** (De Not.) Stev., n. comb. *Myiocopron smilacis* Sacc., Ann. Myc. 7:414. 1909. *Microthyrium smilacis* De Not., Micr. Ital., Dec. 4, p. 22, fig. 4. 1842. On Smilax, Lilliaceae; Alpinia, Zingiberaceae. Asci 60-62 x 20 μ, spores 10 x 6 μ. Syll. Fung. 2:660. 1886.

3. CHAETOTHYRIOPSIS Stevens and Dorman

Mycologia 19:237. 1927.

Type: *C. panamensis* Stev. and Dorm.

Characters: Thallus radiate, superficial, no free mycelium. Ascomata setose, single, ostiolate, round. Spores 1-septate, hyaline, aparaphysate.

1. Chaetothyriopsis panamensis Stev. and Dorm., *l. c.* On Oncoba, Flacourtiaceae. Ascomata 40-70 μ, asci 21-22 x 7 μ, spores hyaline, 2-celled 7 x 2 μ, setae 3-4, simple, septate, arising from margin of ostiole, 36-70 μ long.

4. CALOPELTIS Sydow

Annales Mycologici 23:392. 1925.

Type: *C. acnisti* Syd.

Characters: Like Microthyrium but ascomata grown together.

1. Calopeltis acnisti Syd., *l. c.* On Acnistus, Solanaceae. Ascomata 100-180 μ, asci 45-60 x 13-19 μ, spores 13-19 x 5-8 μ.

2. Calopeltis tetraspora Toro, Ann. Myc. 32:110. 1934. On Symplocus, Symplocaceae. Ascomata 143-291 x 131-285 μ, asci 40-45 x 9-12 μ, spores 14-19 x 2-3 μ.

5. MICROTHYRIOLUM Spegazzini

Bol. Acad. Nac. Ci. Cordoba 23:497. 1919.

Type: *M. apiahynum* Speg.

Characters: No free mycelium, ascomata round, astomate, glabrous, stellate, dehiscent, spores 2-celled, hyaline, pseudoparaphyses few.

This genus differs from Microthyrium in being astomate.

1. Microthyriolum apiahynum Speg., *l. c. Microthyrium apiahynum* Speg., Fungi Chilensis, p. 104. 1910. On Persea, Lauraceae. Ascomata 100-150 μ, asci 50 x 30 μ. Syll. Fung. 9:1055.

2. Microthyriolum (?) obligosporum Speg., Bol. Acad. Nac. Ci. Cordoba 23:499. 1919. On Solanaceae (?). Ascomata 150-200 μ, asci 50-60 x 40 μ, spores 30 x 12-15 μ. Syll. Fung. 22:442.

3. Microthyriolum astomum (Speg.) Speg., Bol. Acad. Nac. Ci. Cordoba 23:499. 1919. *Microthyrium* (?) *astomum* Speg., Fungi Chilensis, p. 104. 1910. On Cryptocarya, Lauraceae. Ascomata 50-60 μ, asci 30 x 14 μ, spores 10 x 3 μ. Syll. Fung. 22:518.

4. Microthyriolum subimperspicuum Speg., Ann. Mus. Nac. Buenos Aires 31:423. 1923. On Pithecolobium, Leguminosae. Ascomata 80-100 μ, asci 50-60 x 15-20 μ, spores 20 x 4 μ.

6. MICROTHYRIUM Desmazières

Annales des Sciences Naturelles 15:138. 1841.

Type: *M. microscopicum* Desm.

Characters: Ascomata superficial, dimidiate, ostiolate, aparaphysate, spores 1-septate, hyaline.

The original description reads "aparaphysate," as does that of the type species, yet Theissen and Sydow say, "wie Myiocopron, Sporen farblos, zweizellig," and they give Myiocopron as paraphysate. As a matter of fact 10 species are described as paraphysate, while in 17 there is no mention made of paraphyses.

Nos. 1-10, paraphysate.

Nos. 11-30, aparaphysate.

Nos. 31-49, paraphyses not recorded; probably there are none.

Nos. 9, 43, and 48 are questionable species.

Literature: Theissen, 1912 and 1913; Saccardo, 1886, vol. 2, p. 662.

Figures: Saccardo, Genera Pyrenomycetes, tab. 12, fig. 19; Oudemans, Champ. Pays Bas, tab. 12, fig. 19, and Rev. Pyren. Batav., tab. 12, fig. 19.

1. Microthyrium paraguayense Speg., Fungi Guar., Pug. I, no. 294, Anal. Soc. Ci. Argentina 16. 1883. On Sapindaceae. Ascomata 140-180 μ, asci 30-32 x 8-10 μ, spores 8 x 3 μ, paraphysate. Syll. Fung. 9:1055. 1891.

2. Microthyrium ekmanii Petr. and Cif., Ann. Myc. 30:206. 1932. On Ocotea, Lauraceae. Ascomata 150-250 μ, asci 45-65 x 15-23 μ, spores 5.5-8.5 x 5-7 μ, paraphysate.

3. Microthyrium exarescens Rehm, Hedw. 39:227, fig. 2. 1900. On leaves. Ascomata 200-300 μ, asci 35-40 x 12-14 μ, spores 10-12 x 3 μ, paraphysate.

4. Microthyrium calophylli Ryan, Mycologia 16:179. 1924. On Calophyllum, Guttiferae. Ascomata 224-336 μ, asci 9.6 x 62 μ, spores 10-12 x 3 μ, paraphysate.

5. Microthyrium laurenti P. Henn., Mission E. Laurent, fasc. 3:317. 1906. On Coffea, Rubiaceae. Ascomata 130-160 μ, asci 25-35 x 8-11 μ, spores 10-14 x 3.5-4.5 μ, paraphysate. Syll. Fung. 22:519. 1913.

6. Microthyrium epimyces Sacc., Bomm., and Rouss., Fl. Myc. Belg. 2:23. Rehm, Ascom. no. 899. On Prunus, Rosaceae. Ascomata 130 μ, asci 36-42 x 15 μ, spores 18 x 6 μ, paraphysate. Syll. Fung. 9:1060. 1891.

7. Microthyrium ranulisporum Doidge, Bothalia 1:65. 1921. On Scolopia, Flacourtiaceae. Ascomata 240-360 μ, asci. 90-100 x 10-14 μ, spores 6.5-8.5 x 3.5-5 μ, paraphysate.

8. Microthyrium malacoderma (v. Höhn.) Sacc. and Trott., Syll. Fung. 22:217. 1913. *Microthyriella malacoderma* v. Höhn., Sitz. K. Akad. Wiss. Wien, Math.-Nat. Kl. Abt. I, 118:1173. 1909. On Paratropsis, Araliaceae. Ascomata 1000 μ, asci 120-140 x 80-85 μ, spores 85-110 x 18-24 μ, paraphyses present.

9. Microthyrium harrimani Sacc., Harrim. Alaska Exped., Crypt., p. 26, pl. 2, fig. 1. 1904. On Tsuga, Pinaceae. Ascomata 350-450 μ, asci 80-100 x 9-10 μ, paraphysate. Questionable species. Syll. Fung. 17-864.

10. Microthyrium mischocarpi Syd., Ann. Myc. 15:238. 1917. On Mischocarpus, Sapindaceae. Ascomata 140-170 μ, asci 36-48 x 14-16 μ, spores 12-14 x 3-3.5 μ, Syll. Fung. 2:426.

11. Microthyrium antarcticum Speg., Fungi Feug. no. 280. Bol. Acad. Nac. Ci. Cordoba 11:238. 1889. On Berberis, Berberidaceae. Ascomata 100-140 μ, asci 22-27 x 3.5-4.5 μ, spores 7-8 x 2-3 μ, aparaphysate. Syll. Fung. 9:1056.

12. Microthyrium cytisti Fckl., Symb. Myc., p. 98. 1869-70. Saccardo, Reliq. Lib. 2, no. 140, tab. 19, fig. 7. *Microthyrium genistae* Niessl. On Cytisus, Leguminosae. Ascomata 120 μ, asci 30 x 6-7 μ, spores fusoid, 7-8 x 2.5 μ, aparaphysate. Rev. Myc. 3, tab. 19, fig. 7. 1881. Syll. Fung. 2:663.

13. Microthyrium alpestre Sacc., Michelia 2:160. 1882. On Carex, Cyperaceae. Ascomata 100-130 μ, asci 28-30 x 6 μ, spores 10-12 x 3-4 μ, aparaphysate. Syll. Fung. 2:666.

14. Microthyrium styracis Starb., Arkiv. Botan. 2:12. 1904. On Styrax, Styracaceae. Ascomata 100-120 μ, asci 31-38 x 5.5-7.5 μ, spores 11-12 x 4.5-5 μ, aparaphysate. Syll. Fung. 17:262.

15. Microthyrium xylogenum Bomm., Rouss., and Sacc., Attid. R. Istit. Veneto di Sci. 1884. On Fagus, Fagaceae. Ascomata 100-120 μ, asci 36 x 8-9 μ, spores 11-13 x 2-2.5 μ, aparaphysate. Syll. Fung. 9:1059.

16. Microthyrium eucalypticola Speg., Ann. Mus. Nac. Buenos Aires

12:426. 1909. On Eucalyptus, Myrtaceae. Ascomata 150 μ, asci 30-40 x 8-9 μ, spores 12-14 x 3 μ, aparaphysate.

17. Microthyrium culmigenum Syd., Ann. Myc. 19:140. 1921. On Calamagrostis, Gramineae. Ascomata 150-180 μ, asci 35-48 x 8-10 μ, spores 10-15 x 3-3.5 μ, aparaphysate.

18. Microthyrium litigiosum Sacc., Fungi Ital., fig. 564; Michelia 1:496. 1877. On Pteris, Pteridophytes. Ascomata 170 x 150 or 200-300 x 110-170 μ, asci 20-25 x 12-14 μ, spores curved, 15 x 2-3 μ, aparaphysate. Syll. Fung. 2:664.

19. Microthyrium virescens Speg., Fungi Puigg. no. 336, Bol. Acad. Nac. Ci. Cordoba 11:553. 1889. On Eugenia, Myrtaceae. Ascomata 80-100 μ, asci 36-42 x 18-24 μ, spores 13-16 x 5-6 μ, aparaphysate. Syll. Fung. 9:1056.

20. Microthyrium melastomacearum Speg., Fungi Puigg. no. 335, Bol. Acad. Nac. Ci. Cordoba 11:553. 1889. On Melastomaceae. Ascomata 150-250 μ, asci 52-75 x 10-13 μ, spores 14-16 x 4-5 μ, aparaphysate. Hedw. 37:327. fig. 2. 1898. Syll. Fung. 9:1056.

21. Microthyrium vittiforme Speg., Fungi Arg. novi v. crit., p. 297. 1899. On Scirpus, Cyperaceae. Ascomata 60 x 100 μ, asci 22-30 x 18-25 μ, spores 14-16 x 4-5 μ, aparaphysate. Syll. Fung. 16:636.

22. Microthyrium microscopicum Desm., Ann. Sci. Nat. 15:138, tab. 14, fig. 1. 1841. On Buxus, Buxaceae; Quercus and Fagus, Fagaceae; Vinca, Apocynaceae; Rhus, Anacardiaceae; Symphoricarpus, Caprifoliaceae; Dacrydium, Taxaceae. Ascomata 150 μ, asci 25-30 x 7-9 μ, spores 8-10 x 3-3.5 μ, aparaphysate.

Var. microspora. Asci 45-50 x 10 μ, spores 15-17 x 4 μ.

Var. major Speg., Fungi Chilensis, p. 105. 1910. On Persea, Lauraceae. Ascomata 100-150 μ, asci 45 x 8-9 μ, spores 12-14 x 4-5 μ, aparaphysate. Syll. Fung. 22:518.

Var. minor Speg., Fungi Chilensis, p. 105. 1910. On Persea linguae, Lauraceae. Ascomata 100 μ, asci 35-40 x 8 μ, spores 10-11 x 4 μ. Cooke, Handb. 2, p. 927, f. 402; Corda, Anleit., tab. F, fig. 52, 17-20; Lindau in Engler, Pflanzenfam. 1, 1, 341, fig. 234 B-D; Neger in Kryptog. Flora Brandenb., 7, p. 138, fig. 6; Saccardo, Fungi Ital., fig. 562; Winter, Kryptog. Flora, 2, p. 52. Syll. Fung. 2:662.

23. Microthyrium litorale Speg., Bol. Acad. Nac. Ci. Cordoba 25:89. 1921. On Rhodostachys, Bromeliaceae. Ascomata 150-200 μ, asci 50 x14 μ, spores 18 x 6-8 μ, aparaphysate.

24. Microthyrium thyriascum Schulze and Sacc., Micr. Slav. no. 5, Rev. Myc. 6:71. 1884. On Quercus, Fagaceae. Ascomata 250-300 μ, asci 60 x 30 μ, spores 19 x 10 μ, aparaphysate. Syll. Fung. 9:1057.

25. Microthyrium fuscellum Sacc., Michelia 2:57. 1882. On Teu-

crium, Labiatae. Ascomata 150 μ, asci 60-70 x 20 μ, spores 23-25 x 7-8 μ, aparaphysate. Syll. Fung. 2:665.

26. Microthyrium annuliforme Syd., Ann. Myc. 12:488. 1914. *Microthyrium maculicolum* Doidge, Trans. Roy. Soc. So. Afr. 8:241. 1920. On Capparis (?), Capparidaceae. Ascomata 100-140 μ, asci 35-45 x 30-35 μ, spores 18-23 x 7-10 μ, aparaphysate. Measurements given by Doidge are: ascomata 160-190 μ, asci 70 x 27 μ, or 50-57 x 30-43 μ, spores 21-23 x 6.5-10 μ.

27. Microthyrium confusum (Desm.) v. Höhn., Ber. Deutsch. Botan. Ges. 37:111. 1919. *Microthyrium microscopicum* Desm. var. *confusum* Desm. No paraphyses present.

28. Microthyrium loranthi (Karst and Hariot) Theiss., Ann. Myc. 14:270. 1916. *Hariotula loranthi* Arn., Ann. École Nac. Agr. Montp., nov. ser., 16:201. 1918. *Clypeolum loranthi* Karst. and Hariot, Asco. nov., Rev. Myc. 12:173. 1890. On Loranthus, Loranthaceae. Ascomata 160-200 μ, asci 56 x 16 μ, or 82 x 11-13 μ, spores 20-22 x 6 μ, aparaphysate.

29. Microthyrium senegalense Speg., Ann. Mus. Nac. Buenos Aires 26:128. 1914. On Penicellaria, Gramineae. Ascomata 150-300 μ, asci 30 x 10 μ, spores 9 x 3 μ, aparaphysate. Syll. Fung. 24:424.

30. Microthyrium scutiae Speg., Ann. Mus. Nac. Buenos Aires 23:79. 1912. On Scutia, Rhamnaceae. Ascomata 150-200 μ, asci 20-25 x 5-6 μ, spores 8 x 1.5 μ, aparaphysate. Syll. Fung. 24:426.

31. Microthyrium acervatum Speg., Fungi Guar., Anal. Soc. Ci. Argentina 26:40. 1888. On Rutaceae; Cayaponia, Cucurbitaceae. Ascomata 45-58 μ, asci 28-32 x 17-18 μ, spores 12 x 4.5 μ, paraphyses (?). Hedw. 39:299, fig. 1. 1900. Syll. Fung. 11:380. 1895.

32. Microthyrium mauritanicum Dur. and Mont., Fl. Alg. I, p. 615. 1849. On Arundo, Gramineae. Ascomata 100 μ, asci 19 x 13 μ, spores 12 x 3 μ, paraphyses (?). Baccarini and Avetta, Ann. Inst. Bot. Roma, 1885, tab. 16, fig. 6. Syll. Fung. 2:664; 9:1058. 1891.

33. Microthyrium michelianum Togn., Atti. Ist. Bot. Pavia 5:7, tab. 1, fig. 16-19. 1899. On Castanea, Fagaceae. Ascomata 200 μ, asci 60 x 13-15 μ, spores 13 x 5-6 μ, paraphyses (?). Syll. Fung. 11:380.

34. Microthyrium angelicae Fautr. and Roum., Rev. Myc. 14:8. 1892. On Angelica, Umbelliferae. Asci 14-20 x 14 μ, spores 10-14 x 4-5 μ, paraphyses (?). Syll. Fung. 11:379. 1895.

35. Microthyrium amygdalinum Cooke and Mass., Grev. 19:90. 1890. On Eucalyptus, Myrtaceae. Spores ellipsoid, 14 x 7 μ, paraphyses (?). Cooke, Austr. Fung., tab. 25, fig. 237. Syll. Fung. 9:1057.

36. Microthyrium mangiferae Bomm. and Rouss., Bol. Soc. Roy. Bot. Belg. 35:164. 1896. On Mangifera, Anacardiaceae. Ascomata 140-180 μ, asci 108 x 18 or 46 x 21 μ, spores 14 x 6 μ, paraphyses (?). Syll. Fung. 14:687.

37. Microthyrium gomphisporum (B. and Br.) Sacc., Syll. Fung. 2:665. 1886. *Micropeltis gomphispora* (Berk. and Broome) Berk., Jour. Linn. Soc. 14:132, tab. 9, fig. 48. 1874. Spores cuneiform, 8-15 μ, paraphyses (?).

38. Microthyrium abietis Mont., Not. Ascom. p. 79. On Abies, Pinaceae. Ascomata 200 μ, asci 40 x 13 μ, spores 17 x 5 μ, paraphyses (?). Syll. Fung. 9:1058. 1891. Ann. Myc. 22:263. 1924.

39. Microthyrium boivini Mont., Ann. Sci. Nat., 4 sér., 7:134. 1857. On leaves. Ascomata 1-3 mm., asci 50 μ, spores 30 x 10 μ, paraphyses (?). Syll. Fung. 2:665.

40. Microthyrium phegopteridis P. Magn., Abh. Naturh. Ges. Nurnb. 16:74. 1906. On Phegopteris, Pteridophyta. Ascomata 78-140 μ, paraphyses (?). Syll. Fung. 22:520.

41. Microthyrium millettiae Smith, Jour. Bot. 36:179. 1898. On Millettia griffoniana, Leguminosae. Ascomata 500 μ, asci 55-35 μ, spores 35-40 μ x 10-12 μ, paraphyses (?). Syll. Fung. 16:635.

42. Microthyrium macrosporum (Sacc.) v. Höhn., Ber. Deutsch. Bot. Ges. 37:110. 1919. *Microthyrium microscopicum* Des. v. *macrospora* Sacc., Syll. Fung. 2:662. 1886. On Buxus, Buxaceae. Ascomata 150 μ, asci 45-50 x 10 μ, spores 15-17 x 4 μ.

43. Microthyrium erysiphoides (E. and M.), Theiss. Abh. K. K. Zool.-Bot. Ges. 7:25. 1913, is a Microthyrium or a Microthyriella. *Asterina patelloides* E. and M., Jour. Myc. 1:136. 1885. *Asterina erysiphoides* E. and M. (not K. and C.), N. A. F. no. 13591. *Asterella erysiphoides* Sacc., Syll. Fung. 9:394. 1891. N. A. F. no. 1359. On Quercus, Fagaceae. Ascomata 275-300 μ, asci 36 x 15 μ, spores 15 x 6 μ, paraphyses (?). Ann. Myc. 10:199. 1912.

44. Microthyrium punctiforme (Berk. and Curtis) Sacc., Syll. Fung. 2:665. 1886. *Micropeltis punctiformis* B. and C., Cuban Fungi no. 744, Jour. Linn. Soc. 10:1868. On leaves. Spores 15 x 2.5-3 μ, paraphyses (?).

45. Microthyrium psychotriae Massee, Jour. Bot. 34:152. 1896. On Psychotria, Rubiaceae. Ascomata 100-125 μ, asci 45-50 x 6-7 μ, spores clavate, 7-8 x 3-2 μ, paraphyses (?). Syll. Fung. 14:688.

46. Microthyrium graminum Bomm., Rouss., and Sacc., Syll. Fung. 9:1059. 1891. *Var.* major Grove, Jour. Bot. 71:286. 1933. On Psamma, Gramineae. Ascomata 70-90 μ, asci 27-30 x 7.5-10 μ, spores 9 x 3 μ, paraphyses (?).

47. Microthyrium corynellum Tassi, Bull. Lab. Ort. Bot., Siena, 10:97, fig. 2. 1900. On Leptospermum, Myrtaceae. Ascomata 100-140 μ, asci 35-40 x 6-8 μ, spores 8-10 x 2 μ, paraphyses (?). Syll. Fung. 16:635.

48. Microthyrium arcticum Oudem., Contr. Flore Myc. Nowaja Semlja, p. 15, tab. 1, fig. 16. 1885. On Potentilla, Rosaceae. Ascomata 60-100 μ, asci 35 x 7 μ. A doubtful species. Syll. Fung. 9:1038. 1891.

49. Microthyrium platani Rich., Syll. Fung. 9:1061. 1891. On Platanus, Platanaceae. Ascomata 100-130 μ, asci 40-48 x 5-7 μ, spores 8-10 x 2.5-3.5 μ.

50. Microthyrium rhododendri Grove, Jour. Bot. 71:287. 1933. On Rhododendron, Ericaceae. Ascomata 400 x 200 μ, asci 35-40 x 20-25 μ, spores 20 x 9-10 μ, paraphyses not seen.

7. NIESSLELLA v. Höhnel

Ber. Deutsche Botanische Gesellschaft 36:468. 1918.

Type: *N. scirpicola* (Fckl.) v. Höhn.

Characters: Free mycelium none, ascomata radiate, ostiole, at first lacerate then broadly round, simulating the Discomycetes. Excipulum present or absent. Paraphyses filiform, simple. Asci clavate, 8-spored, spores elongate, hyaline, 2 (or 4?) celled.

1. Niesslella scirpicola (Fckl.) v. Höhn., *l. c. Micropeziza scirpicola* Fckl. 1869. *Mollisia scirpicolum* (Fckl.) Sacc. 1889. *Belonidium scirpicolum* (Fckl.) Rehm, 1891. On Scirpus, Cyperaceae. Asci 54 x 8 μ, spores 12-14 x 3 μ. Syll. Fung. 8:348.

2. Niesslella aurantiaca (Rehm) v. Höhn., *l. c. Belonidium aurantiacum* Rehm, Disco. p. 564. 1891. On Carex, Cyperaceae. Asci 60-70 x 8 μ, spores 1-3 septate, hyaline, 10-15 x 1.5 μ, paraphysate. Syll. Fung. 24:533, 10:29.

8. SEYNESIA Saccardo

Sylloge Fungorum 2:668. 1886.

Type: *S. nobilis* (Welw. and Curr.) Sacc.

Characters: No free mycelium, ascomata circular, radiate, ostiolate, spores dark, 2-celled. Like Microthyrium but with brown spores.

Literature: Öst. Bot. Zeitschr. 63:121-131. 1913. Atti dell' Acad. Ven.-Trent. 10:61. 1917.

Synonymous genera:

1) *Arnaudiella* Petr., Ann. Myc. 25:339. 1927. Type: *A. caronae* (Pass.) Petr.,—*Seynesia caronae* Pass.,—*Seynesia pulchella* Bomm., Rouss., and Sacc. The many dimidiate forms formerly placed in Arnaudiella according to Petrak must find place in Seynesia.

2) *Seynesiola* Speg., Bol. Acad. Nac. Ci. Cordoba 23:498. 1919. Type: *S. chilensis* Speg. There is no sufficient distinction from Seynesia.

3) *Ferrarisia* Sacc., Atti dell' Acad. Ven.-Trent. 3:10-61. 1919; *emend.* Petr., Ann. Myc. 25:343. 1927. Type: *F. ipomoeae* (Syd.) Petr.,—*Seynesia ipomoeae* Syd.,—*Ferrarisia philippina* Sacc. This genus may be united with Seynesia.

4) ***Seynesiella Arn.,*** Ann. École Nac. Agr. Montp. 16:202. 1918. Type: *S. juniperi* (Desm.) Arn., Syll. Fung. 24:502. May be united with Seynesia.

1. Seynesia cordiae Ryan, Mycologia 16:178. 1924. On Cordia, Boraginaceae. Ascomata 150-240 μ, asci 17 x 34 μ, spores 10 x 3.5 μ, paraphysate.

2. **Seynesia eugeniae** (Syd.) Stev., n. comb. *Ferrarisia eugeniae* Syd., Ann. Myc. 27:66. 1929. On Eugenia, Myrtaceae. Ascomata 60-100 μ, asci 16-23 x 14-17 μ, spores 8-11 μ, paraphysate.

3. Seynesia coccolobae Ryan, Mycologia 16:178. 1924. On Coccoloba, Polygonaceae. Acomata 672-1200 μ, asci 19-21 x 84-96 μ, spores 19 x 7-8 μ.

4. Seynesia brasiliensis Speg., Rev. Mus. La Plata 15:29. 1896. On leaves. Ascomata 250 μ, asci 80-100 x 20-25 μ, spores 24-25 x 12 μ, paraphysate. Syll. Fung. 22:524. 1913.

5. Seynesia alstoniae Rehm, Leaflets Philipp. Bot. 6:2227. 1914. Asco. exs. 2164. On Alstonia, Apocynaceae. Ascomata 500-1000 μ, asci 50-70 x 30-40 μ, spores 27-30 x 12-14 μ, paraphysate. Syll. Fung. 24:427; v. Höhnel, Ann. Myc. 16:221. 1918.

6. Seynesia fusco-paraphysata Henn., Engl. Bot. Jahrb. 33:48. 1903. On Tabernaemontana, Apocynaceae. Ascomata 1000-1500 μ, asci 80-90 x 28-32 μ, spores 32-36 x 10-13 μ, paraphysate. Syll. Fung. 17:867; Öst. Bot. Zeitschr. 63:125. 1913.

7. Seynesia melanosticta Cooke and Mass., Grev. 18:34. 1889. On Alsodeia, Violaceae. Ascomata 500 μ, spores 10 x 3-5 μ, paraphyses (?). Syll. Fung. 9:1066.

8. Seynesia echitis (Allesch.) Theiss., Beiheft. Bot. Centralbl. Abt. II. 29:53. 1912. *Dimerosporium echitis* Allesch., Hedw. 36:235. 1897. On Echites, Apocynaceae. Ascomata 80-140 μ, asci 30-35 x 20 μ, spores 10 x 5 μ, paraphyses (?). Syll. Fung. 14:468; Öst. Bot. Zeitschr. 63:127. 1913.

9. Seynesia montana (Rac.) Sacc. and Trott., Syll. Fung. 22:524. 1913. *Trichopeltis montana* Rac., Bul. Acad. Sci. Cracovie, p. 378. 1909. On Vaccinium, Ericaceae. Ascomata 170-220 μ, asci 36-50 x 8-10 μ, spores 11-14 x 3-4 μ, paraphyses (?).

10. Seynesia pontica (Bub.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:33. 1913. *Asterina pontica* Bub., Handel-Mazzetti Bot. Pont. Randyeb. Ann. Naturhist. Hofmus. Wien 23:102, tab. 5, fig. 1, a-f. 1909. On Daphne, Thymelaceae. Ascomata 200-400 μ, asci 30-45 x 22-25 μ, spores 12-15 x 4-4.5 μ, paraphyses (?). Syll. Fung. 22:541.

11. Seynesia ipomoeae Syd., Philipp. Jour. Sci. 8:488. 1913. *Ferrarisia philippina* Sacc., Atti dell' Acad. Ven.-Trent. Notae Mycol. 23. 1917. *Ferrarisia ipomoeae* (Syd.) Petr., Ann. Myc. 25:343. 1927. On

Ipomoea, Convolvulaceae. Ascomata 500-1500 μ, asci 30-35 x 24-28 μ, spores 15-17 x 7.5-8.5 μ, paraphysate. Syll. Fung. 24:428; Ann. Myc. 29:223. 1931.

12. Seynesia orbiculata H. and P. Syd., Ann. Myc. 10:39. 1912. On Euclea, Ebenaceae. Ascomata 90-175 μ, asci 35-60 x 16-25 μ, spores 13-18 x 6-8 μ, paraphyses (?). Syll. Fung. 24:428; Trans. Roy. Soc. So. Afr. 8:242. 1920.

13. Seynesia microthyriodes (Wint.) Theiss., Öst. Bot. Zeitschr. 63:125. 1913. *Asterina microthyrioides* Wint., Hedw. 25:94. 1885. *Asterina solanicola* Kalch. and Cke., (not Berk. and Curtis), Grev. 9. 1880. *Asterina erysiphoides* Kalch. and Cke., Grev. 9. 1880. On Eucalyptus, Myrtaceae. Ascomata 300 μ, asci 40-50 x 18-21 μ, spores 19 x 5 μ, paraphyses (?). Syll. Fung. 9:380. 1891.

14. Seynesia costaricensis Speg., Acad. Nac. Ci. Cordoba, Bol. 23:570. 1919. On Gaulthera, Ericaceae. Ascomata 90-120 μ, asci 38-45 x 30 μ, spores 20 x 6-7 μ, paraphyses (?). Syll. Fung. 24:428.

15. Seynesia drymidis (Lév.) Speg., Fungi Chilensis 108. 1910. On Drymis, Magnoliaceae. Ascomata 120-150 μ, asci 42-50 x 28-30 μ, spores 20-23 x 9-10 μ, paraphyses (?).

16. Seynesia ficina Syd., Ann. Myc. 14:365. 1916. On Ficus, Moraceae. Ascomata 220-300 μ, asci 45-55 x 35-40 μ, spores 22-23 x 10-14 μ, paraphyses (?). Syll. Fung. 24:429.

17. Seynesia calamicola P. Henn. and Nym., Monsunia 1:160. 1899. On Calamus, Palmae. Ascomata 500-600 μ, spores 24-27 x 9-10 μ, paraphyses (?). Syll. Fung. 16:641; Öst. Bot. Zeitschr. 63:124. 1913.

18. Seynesia nobilis (Welw. and Curr.), Sacc., Syll. Fung. 2:668. 1886. *Pemphidium nobile* Welw. and Curr., Fungi Angol., Trans. Linn. Soc. London 26:283, tab. 17, fig. 12. 1867. On Elais, Palmae. Spores 25-28 μ, paraphyses (?). Öst. Bot. Zeitschr. 63:125. 1913.

19. Seynesia apuleiae Speg., Ann. Mus. Nac. Buenos Aires 23:80. 1912. On Apuleia, Leguminosae. Ascomata 90-150 μ, asci 40-70 x 30-40 μ, spores 20-28 x 10-12 μ, paraphyses (?). Syll. Fung. 24:429.

20. Seynesia chilensis Speg., Fungi Chilensis no. 166, p. 107. 1910. *Seynesiola chilensis* Speg., Bol. Acad. Nac. Ci. Cordoba 23:498. 1919. On Eugenia, Myrtaceae. Ascomata 250-400 μ, spores 25-28 x 12-14 μ. Öst. Bot. Zeitschr. 63:127. 1913. Syll. Fung. 22:523. 1913.

21. Seynesia olivascens Speg., Fungi Puigg. no. 361, Bol. Acad. Nac. Ci. Cordoba 11:569. 1889. On Drymis, Magnoliaceae; Myrtaceae; Xanothoxylum, Rutaceae. Ascomata 80-90 μ, asci 30 x12 μ, spores 10-11 x 4 μ, aparaphysate. Syll. Fung. 9:1067. 1891.

22. Seynesia platensis Speg., Fungi Arg. novi v. crit. p. 298. 1899. On Duvaua, Anacardiaceae. Ascomata 300-450 μ, asci 20-25 x 18-20 μ, spores

10-12 x 4-5 μ, aparaphysate. Syll. Fung. 16:639; Öst. Bot. Zeitschr. 63:128. 1913.

23. Seynesia variolosa Speg., Fungi Puigg. no. 363, Bol. Acad. Nac. Ci. Cordoba 11:570. 1889. On Myrtaceae. Ascomata 120-150 μ, asci 28-30 x 18-20 μ, spores 12 x 5-6 μ, aparaphysate. Syll. Fung. 9:1067.

24. Seynesia pulchella Bomm., Rouss., and Sacc., Syll. Fung. 9:1066. 1891. *Seynesia caronae* Pass., Diag. Fung. nuov., Rend. R. Acad. Lincei, Roma 4, ser. 3, no. 44. 1887. *Arnaudiella caronae* Petr., Ann. Myc. 25:339. 1927. On Sarothamus, Leguminosae; Spartina, Gramineae. Ascomata 45-110 μ, asci 30-36 x 9-13 μ, spores 11-15 x 4-6 μ, aparaphysate.

25. Seynesia iochromatis (Rehm) Theiss., Öst. Bot. Zeitschr. 62:279. 1912. *Microthyrium iochromatis* Rehm, Hedw. 35:162. 1895. On Jochroma, Solanaceae. Ascomata 150-230 μ, asci 42-50 x 15-22 μ, spores 16 x 8 μ, aparaphysate. Syll. Fung. 14:688.

26. Seynesia rimosa Pat., Bull. Soc. Myc. Fr. 42:230, 1895. On leaves. Ascomata 500-1000 μ, asci 80-90 x 16-20 μ, spores 16-20 x 6 μ, aparaphysate. Syll. Fung. 14:689; Öst. Bot. Zeitschr. 63:127. 1913.

27. Seynesia disciformis Pat., Bull. Soc. Myc. Fr. 42:230. 1895. On leaves. Ascomata 300 μ, asci 100 x 20 μ, spores 20 x 7 μ, aparaphysate. Syll. Fung. 14:689; Öst. Bot. Zeitschr. 63:126. 1913.

28. **Seynesia juniperi** (Desm.) Stev., n. comb. Syn. d'apres Winter, Pilze II, Abt. 1. 1887. Ascomycetes, p. 340 in Rabenhorst, Krypt. fl. *Seynesiella juniperi* Arn., Ann. École Nac. Agr. Montp. 16:203. 1918. *Dothidea juniperi* Desm., Ann. Sci. Nat. ser. 2, 15:129. 1841. *Gibbera juniperi* Auersw., Rabh. Fungi Europei, no. 1030. *Stigmatea juniperi* (Desm.) Winter l. c., *Microthyrium juniperi* Sacc., Mich. 1:342. 1877. Syll. Fung. 2:664. *Asterina juniperi* Jacz. and Boyer, Materiaux fl. myc. Montp. 1894. *Stigmatea alpina* Speg., in Thümen, Mycotheca universalis, no. 1057. On Juniperus, Pinaceae. Ascomata 200 μ, asci 65 x 20 μ, spores 20-25 x 7-9 μ, aparaphysate.

29. Seynesia atkinsonii Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:69. 1925. *Myiocopron freycinetiae* (Atk.) Arn., Ann. Crypt. Exot. 4:88. 1931. On Freycinetia, Pandanaceae. Ascomata 120 μ, asci 24-29 x 60-94 μ, spores 12 x 22 μ, aparaphysate.

30. Seynesia scutellum Syd., Ann. Myc. 8:40. 1910. On Drymis piperita, Magnoliaceae. Ascomata 350-550 μ, asci 50-70 x 14-20 μ, spores 22-28 x 7-8 μ, aparaphysate. Syll. Fung. 22:524.

31. Seynesia megalothecia Speg., Fungi Puigg. no. 360, Bol. Acad. Nac. Ci. Cordoba 11:569. 1889. *Seynesia hammariana* P. Henn., Hedw. 41:301. 1902. On Sebastiania, Euphorbiaceae; Coccoloba, Polygonaceae. Ascomata 1000-2000 μ, asci 40-60 x 40-50 μ, spores 20-30 x 16-20 μ, aparaphysate. Öst. Bot. Zeitschr. 63:126. 1913. Syll. Fung. 9:1067; 17:867.

32. Seynesia circinans (Speg.) Theiss., Öst. Bot. Zeitschr. 62:220. 1912; 63:127. 1913. *Microthyrium* (?) *circinans* Speg., Fungi Arg. 4, no. 141, Anal. Soc. Ci. Argentina 12:553. 1881. *Microthyriolum circinans* (Speg.) Speg., Fungi Arg. 4, no. 123; Bol. Acad. Nac. Ci. Cordoba 23:499. 1919. On leaves. Ascomata 200-270 μ, spores 30-32 x 11-14 μ, aparaphysate. Hedw. 37:322, fig. 4. 1898. Syll. Fung. 2:665.

33. Seynesia pachysperma Speg., Fungi Puigg. no. 362, Bol. Acad. Nac. Ci. Cordoba 11:570. 1889. On leaves. Ascomata 150-200 μ, asci 55-65 x 40-60 μ, spores 32-42 x 18-20 μ, aparaphysate. Öst. Bot. Zeitschr. 63:127. 1913. Syll. Fung. 9:1067.

34. Seynesia santanderiana Toro, Ann. Myc. 32:111. 1934. On Rapaneae. Ascomata 200-456 x 171-456 μ, asci 88-136 x 34-46 μ, spores 41-45 x 18-19 μ.

35. Seynesia plana (Rac.) Theiss., Abh. K. K. Zool.-Bot. Ges. Wien 7:33. 1913. *Asterina plana* Rac., in herb. No measurements recorded.

36. Seynesia piraguensis Speg., Fungi Guar., Pug. I, no. 298. Anal. Soc. Ci. Argentina 17. 1884. On Laurinaceae. Ascomata 170-250 μ, asci globose 45 μ, aparaphysate, spores 20-22 x 9-10 μ. Öst. Bot. Zeitschr. 63:127. 1913. Syll. Fung. 9:1064. 1891.

9. SEYNESIOPELTIS Stevens and Ryan

Bernice P. Bishop Museum Bulletin 19:69. 1925.

Type: *S. tetraplasandrae* Stev. and Ryan.

Characters: No free mycelium, ascomata round, radiate, 2-5 mm., thallus setose. Spores 2-celled, brown, ascomata bearing several locules, aparaphysate.

Literature: Bernice P. Bishop Mus. Bul. 19:69. 1925. Ann. Crypt. Exot. 4:80. 1931.

1. Seynesiopeltis tetraplasandra Stev. and Ryan, *l. c.* On Tetraplasandra, Araliaceae. Ascomata 113-227 μ, asci 169-180 x 36-45 μ, spores 21-43 x 12-18 μ.

10. SCUTELLUM Spegazzini

Fungi Puigg., Bol. Acad. Nac. Ci. Cordoba 11:574. 1889.

Type: *S. paradoxum* Speg.

Characters: No free mycelium, ascomata superficial, dimidiate, smooth, ostiolate, aparaphysate. Spores brown, 3-4 celled.

Sydow says that this genus is "not certainly" of the Microthyriaceae. In the general description of the genus the character "paraphysate" is given. In the five species listed three are aparaphysate and two have paraphyses. Ann. Myc. 15:416. 1917.

Figures: Saccardo, Gen. Pyren. tab. 13, fig. 2. Oudemans, Champ. Pays Bas, tab. 13, fig. 2. Rev. Pyren. Batav. tab. 13, fig. 2.

1. Scutellum javanicum v. Höhn., Sitz. K. Acad. Wiss. Wien 121:348. 1912. On Orchidaceae. Ascomata 250-350 μ, asci 64-70 x 33-34 μ, spores 30 x 12 μ, aparaphysate. Syll. Fung. 24:431.

2. Scutellum paradoxum Speg., Fungi Arg., Pug. IV. Anal. Soc. Ci. Argentina 11:574. 1889. On leaves. Ascomata 150-180 μ, asci 65-80 x 15 μ, spores 20 x 6.5-7 μ, aparaphysate. Rev. Myc. 4, tab. 28, fig. 10. 1882. Syll. Fung. 2:668. 1886.

3. Scutellum guaraniticum Speg., Fungi Guar., Pug. I, no. 301. 1883. On Pilocarpus, Rutaceae. Ascomata 130-160 μ, asci 50 x 15-18 μ, spores 12-14 x 5-6 μ, aparaphysate. Spores of *S. javanicum*, 3-septate, those of *S. paradoxum* and *S. guaranticum*, 2-septate. Bol. Acad. Nac. Ci. Cordoba 23:505. 1919. Syll. Fung. 9:1068. 1891.

4. Scutellum microsporum Speg., Ann. Mus. Nac. Buenos Aires 12:427, fig. 30. 1909. On Moya, Celastraceae. Ascomata 200-250 μ, asci 50 x 10 μ, spores 12 x 3-4 μ, 2-septate, paraphysate. Syll. Fung. 22:530.

5. Scutellum bromeliacearum (Rehm) Sacc., and Syd., Syll. Fung. 16:645. 1902. *Micropeltis maculata* Cooke and Massee var. *bromeliacearum* Rehm, Hedw. 39:230. 1900. On Bromelia, Bromeliaceae. Ascomata 150 μ, asci 45-50 x 8-10 μ, spores 10-12 x 3-3.5 μ.

11. HALBANIA (Rac.) v. Höhnel

Sitz. K. Akad. Wiss. Wien 118:1168. 1909.

Type: *H. Cyathearum* (Rac.) v. Höhn.

Characters: Ascomata superficial, dimidiate, radiate, ostiolate, aparaphysate, brown basal membrane. Spores brown with two large middle cells and two smaller apical cells.

Literature: Myc. Centralbl. 3:277. 1913. Ann. École Nac. Agr. Montp. 16:164. 1918.

1. Halbania cyathearum (Rac.) v. Höhn., *l. c. Asterina cyathearum* Rac., Parasit. Algen und Pilze Javas 2:17. 1900. On Cyathea, Pteridophyta. Ascomata 300 μ, asci 58 x 50 μ, spores 26 x 14 μ. Syll. Fung. 16:649; 17:881.

12. CAENOTHYRIUM Theiss. and Syd.

Annales Mycologici 15:417. 1917.

Type: *C. alang-alang* (Rac.) Theiss. and Syd.

Characters: No free mycelium, ascomata dimiditate, ostiolate, setose, no basal mebrane, aparaphysate. Spores hyaline, many-celled.

Literature: Ann. Myc. 12:561. 1914; 15:417. 1917. Parasit. Algen und Pilze Javas 2:8. 1900.

1. Caenothyrium alang-alang (Rac.) Theiss. and Syd., *l. c. Micropeltis alang-alang* Rac., Parasit. Algen und Pilze Javas 2:8. 1900. *Microthyrium imperatae* Syd., Ann. Myc. 12:561. 1914. v. Höhnel regarded it as *Actinopeltis*. On Imperata, Gramineae. Ascomata 100-150 μ, asci 40-50 x 10 μ, spores 12-15 x 2.5 μ.

13. ACTINOMYXA Sydow

Annales Mycologici 15:146. 1917.

Type: *A. australiensis* Syd.

Characters: Ascomata superficial, radiate, no free mycelium, asci 8-spored, paraphysate, spores hyaline, several (3) septate.

1. Actinomyxa australiensis Syd., *l. c.* On Lasiopetalum, Sterculiaceae. Ascomata 300-350 μ, asci 56-65 x 8-10 μ, spores 18-22 x 2-4 μ. Syll. Fung. 24:533.

14. PHRAGMOTHYRIUM v. Höhnel

Sitz. K. Akad. Wiss. Wien 121:347. 1912.

Type: *P. hymenophylli* (Pat.) v. Höhn.

Characters: Like Microthyrium, but the spores colorless, many-celled. This genus was segregated by v. Höhnel from Micropeltis, which is of the Hemispheriaceae. Study of types is necessary. It is probable that some of the species listed here belong to the Microthyriaceae and some to the Hemispheriaceae.

1. Phragmothyrium trichomanis (Henn.) v. Höhn., *l. c. Micropeltis trichomanis* Henn., Engl. Bot. Jahrb. 28:326. 1900. On Trichomanis, Pteridophyta. Ascomata 200 μ, asci 30-45 x 5-7 μ, paraphysate, spores 1-3 septate. Syll. Fung. 16:645.

2. Phragmothyrium biseptata (v. Höhn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis biseptata* v. Höhn., Sitz. K. Akad. Wiss. Wien 118:1168. 1909. On Paratropia, Araliaceae. Ascomata 120-140 μ, asci 30-32 x 6-9 μ, spores 7.5-10 x 2-3 μ, paraphysate. Spores 2-septate. Syll. Fung. 22:527.

The position of this and the preceding species in this genus is questionable due to the few septa in the spores.

3. Phragmothyrium manaosensis (P. Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis manaosensis* P. Henn., Fungi Amaz. 3:377. 1904. On Myrtaceae. Ascomata 130-160 μ, asci 30-40 x 11-15 μ, spores 10-13 x 3-3.5 μ, spores 2-3 septate. Syll. Fung. 17:869.

4. Phragmothyrium hymenophylli (Pat.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis hymenophylli* Pat., Bull. Soc. Myc. Fr. 24:126, tab. 9, fig. 4. 1887. On Hymenophyllum, Pteridophyta. Ascomata 250-300 μ, asci 50-60 x 10 μ, paraphysate, spores 3-septate. Syll. Fung. 9:1071.

5. Phragmothyrium myrsines (Rehm) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis myrsines* Rehm, Hedw. 39:220, fig. 11. 1900. On Myrsine, Myrsinaceae. Ascomata 90-120 μ, asci 50 x 15 μ, spores 15 x 6 μ, paraphysate, spores 3-septate. Syll. Fung. 16:643.

6. Phragmothyrium flageoletii (Sacc.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis flageoletii* Sacc., Grev. 21:67. 1892. On Hedera, Araliaceae; Ilex, Aquifoliaceae. Ascomata 300 μ, asci 50-60 x 14-16 μ, aparaphysate, spores 18-21 x 5-6 μ, 3 septate.

7. Phragmothyrium fimbriatum v. Höhn., Ann. Myc. 17:115. 1919. On Ardisia, Myrsinaceae. Ascomata 200 μ, asci 60 x 14 μ, aparaphysate, spores 16-20 x 4 μ, 3-septate. Syll. Fung. 24:430.

8. Phragmothyrium corruscans (Rehm) Theiss., Broteria 12:76. 1914. *Micropeltis corruscans* Rehm, Philipp. jour. Sci. 8:255. 1913. On Syndrella, Compositae. Ascomata 100 μ, asci 30 x 10 μ, aparaphysate, spores 9-12 x 3-3.5 μ, 3-septate.

9. Phragmothyrium umbilicata (Mont.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis umbilicata* Mont., Bol. Soc. Roy. Bot. Belg. 39:48. 1900. On Hederae, Araliaceae; Carex, Cyperaceae. Ascomata 500 μ, asci 36-40 x 15 μ, aparaphysate, spores 12 x 3.5 μ, 3-septate. Syll. Fung. 16:644.

10. Phragmothyrium blyttii (Rostr.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis blyttii* Rostr., Bidr. Ascom. Dovre, p. 6. 1891. On Andromeda, Ericaceae. Asci 50 x 12-13 μ, spores 32-34 x 2.5-4 μ, 3-septate, paraphyses (?). Syll. Fung. 11:381.

11. Phragmothyrium caesalpiniae (Tassi) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis caesalpiniae* Tassi, Bull. Lab. Ort. Bot., Siena, 2:28, tab. 6, fig. 4. 1899. On Caesalpinia, Leguminosae. Ascomata 180-200 μ, asci 50-60 x 24-25 μ, spores 10-12 x 14 μ, 3-septate, paraphyses (?). Syll. Fung. 16:643.

12. Phragmothyrium carniolica (Rehm) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis carniolica* Rehm, Hedw. 31:307. 1892. On Pyrola, Pirolaceae. Ascomata 100-250 μ, asci 36-45 x 15 μ, spores 18-22 x 3 μ, 3-septate, paraphyses (?). Syll. Fung. 11:381.

13. Phragmothyrium erysiphoides (Rehm) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis erysiphoides* Rehm, Hedw. 44:1. 1904. On Malpighiaceae. Ascomata 200 μ, asci 50-55 x 8-9 μ, spores 15 x 2-2.5 μ, 3-septate, paraphyses (?). Syll. Fung. 17:869.

14. Phragmothyrium garciniae (Henn.) v. Höhn., Sitz. K. Akad.

Wiss. Wien 121:347. 1912. *Micropeltis garciniae* P. Henn., Engl. Bot. Jahr. 31:48. 1903. On Garcinia, Guttiferaceae. Ascomata 250-300 μ, asci 40-50 x 10-12 μ, aparaphysate, spores 15-20 x 3.5-4 μ, 3-4 septate. Syll. Fung. 17:869.

15. Phragmothyrium xylopiae (Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis xylopiae* P. Henn., Fungi Amaz., Hedw. 44:66. 1905. On Xylopia, Anonaceae. Ascomata 240-300 μ, asci 40-50 x 8-12 μ, spores 14-20 x 3.5-4.5 μ, 3-5 septate. Syll. Fung. 17:869.

16. **Phragmothyrium sprucei** (Cke.) Ryan, n. comb. *Micropeltis sprucei* Cooke, Syll. Fung. 11:382. 1895. *Microthyrium sprucei* Cooke, Grev. 21:76. 1892. On unknown. Ascomata 500 μ, asci elliptical, spores 3-5 septate, 28-32 x 8-9 μ.

17. Phragmothyrium oleae (Togn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis oleae* Togn., Hedw. 34:35. 1895. On Oleae, Oleaceae. Ascomata 300 μ, asci 45-55 x 12 μ, spores 27-29 x 4-5 μ, 3-5 septate. Syll. Fung. 11:381.

18. Phragmothyrium coffeicola (Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis coffeicola* Henn., Hedw. 41:63. 1902. On Coffea, Rubiaceae. Ascomata 200-500 μ, asci 26-36 x 12-18 μ, spores 18-30 x 3.5-5 μ, 3-6 septate. Syll. Fung. 17:870.

19. Phragmothyrium distinctum (Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis distincta* Henn., Engl. Bot. Jahrb. 29:257. 1901. On Tricalysia, Rubiaceae. Ascomata 180-250 μ, asci 36-65 x 20-28 μ, spores 25-50 x 4-5 μ, 3-9 septate. Syll. Fung. 17:870.

20. Phragmothyrium rheediae (Rehm) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis rheediae* Rehm, Ann. Myc. 9:368. 1911. On Rheedia, Guttiferae. Ascomata 150 μ, asci 40 x 12 μ, spores 20 x 3 μ, 5 septate. Syll. Fung. 24:517.

21. Phragmothyrium schmidtiana (Rostr.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis schmidtiana* Rostr., Botan. Tidsskr. 24:211. 1902. On Apostasia, Orchidaceae. Asci 50-52 x 10-12 μ, paraphysate, spores 20-25 x 5 μ, 5-7 septate. Syll. Fung. 17:870.

22. Phragmothyrium hirtellae (Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis hirtellae* Henn., Hedw. 47:269. 1908. On Hirtella, Rosaceae. Ascomata 200-280 μ, asci 35-45 x 13-18 μ, spores 30-35 x 5 μ, 5-7 septate. Syll. Fung. 22:526.

23. Phragmothyrium alabamensis (Earle) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis alabamensis* Earle, Bull. Torr. Bot. Club 24:359. 1898. On Magnolia, Magnoliaceae. Ascomata 300-400 μ, asci 50-60 x 16-20 μ, spores 25-30 x 5 μ, 6 septate. Syll. Fung. 16:642.

24. Phragmothyrium scheffleri (Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis scheffleri* Henn., Engl. Bot. Jahrb. 28:38. 1900. On Flacourtiaceae. Ascomata 300-400 μ, asci 80-110 x 22-30

μ, spores 60-90 x 7-9 μ, 10-11 septate, aparaphysate. Syll. Fung. 17:869.

25. Phragmothyrium marattiae (Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis marattiae* Henn., Hedw. 34:13. 1895. On Marattia, Pteridophyta. Asci 60-70 x 10-14 μ, spores 27-35 x 3-4 μ, many septate. Syll. Fung. 11:382.

26. Phragmothyrium rolliniae (Henn.) v. Höhn., Sitz. K. Akad. Wiss. Wien 121:347. 1912. *Micropeltis rolliniae* Henn., Hedw. 43:84. 1904. On Rollinia, Anonaceae. Ascomata 100 μ, asci 20-30 x 5-7 μ, spores 15-20 x 2-2.5 μ, many septate, paraphysate. Syll. Fung. 17:868.

15. MICROPELTOPSIS Wainio

Acta Soc. Fenn. 49:218. 1921.

Type: *M. cetraricola* Wain.

Characters: Ascomata dimidiate, radiate, spores 3-many septate, hyaline, aparaphysate, lichenicole.

1. Micropeltopsis cetraricola Wain., *l. c.* On Cetraria, a lichen.

16. LEMBOSIDIUM Spegazzini

Bol. Acad. Nac. Ci. Cordoba 26:342. 1922.

Type: *L. portoricense* Speg.

Characters: No free mycelium, ascomata linear, dimidiate. Asci pseudoparaphysate. Spores 2-celled, hyaline.

1. Lembosidium portoricense Speg., *l. c.* On Coccoloba, Polygonaceae. Ascomata 200-500 x 72-100 μ, asci 25 x15-20 μ, spores 10 x 2.5 μ. N. Y. Acad. Sci. 8:23. 1926.

17. AULOGRAPHELLA v. Höhnel

Annales Mycologici 15:367. 1917.

Type: *A. Epilobii* (Lib.) v. Höhn.

Characters: Ascomata linear; spores hyaline, 2-celled, aparaphysate. Like Auloghaphum but lacking free mycelium.

1. Aulographella epilobii (Lib.) v. Höhn., *l. c. Aulographum epilobii* Lib., Pl. Crypt. Ard. no. 273. 1834. On Epilobium, Onagraceae. Asci 15-20 x 6.5-8 μ, paraphyses indistinct, spores 6-8 x 1.8-2 μ. Duby, Hyster. 1861. Syll. Fung. 2:730. 1886.

2. Aulographella baumeae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:77. 1925. On Baumea, Cyperaceae. Ascomata 100-400 μ, asci 10-14 x 25 μ, spores 2-3 x 9 μ.

18. LEMBOSINA Theissen

Annales Mycologici 11:437. 1913. *Ibid.*, 15:417. 1917.

Type: *L. aulographoides* (Bomm., Rouss., and Sacc.) Theiss.

Characters: No free mycelium, ascomata linear, spores dark, 2-celled, paraphysate. Like Lembosia but lacking free mycelium.

1. Lembosina aulographoides (Bomm., Rouss., and Sacc.) Theiss., Ann. Myc. 11:437. 1913. *Lembosia aulographoides* Bomm., Rouss., and Sacc., Hedw. 31:304. 1892. On Rhododendron, Ericaceae. Ascomata 250-330 μ, asci, 45 x 28 μ, spores 15-18 x 6 μ. Syll. Fung. 9:1107.

2. Lembosina copromya (Bomm., Rouss., and Sacc.) Theiss., Ann. Myc. 11:437. 1913. *Lembosia copromya* Bomm., Rouss., and Sacc., Syll. Fung. 9:1107. 1891. On Tilia, Tiliaceae. Ascomata 400-500 x 200-250 μ, asci 36-60 x 21-27 μ, spores 20-22 x 9-10 μ. Probably a variety of *L. aulographoides*.

19. MORENOINA Theissen

Annales Mycologici 11:434. 1913.

Type: *M. antarctica* (Speg.) Theiss.

Characters: No free mycelium, ascomata linear, spores brown, 2-celled, aparaphysate. Like Morenoella but lacking free mycelium.

1. Morenoina microscopica (Speg.) Theiss., Ann. Myc. 11:434. 1913. *Morenoella microscopica* Speg., Fungi Puigg. no. 373. Bol. Acad. Nac. Ci. Cordoba 11:577. 1889. On Eugenia, Myrtaceae. Ascomata 250-1500 μ, asci 15-16 x 7-8 μ, spores 6-7 x 2 μ. Syll. Fung. 9:1096.

2. Morenoina australis (Speg.) Theiss., Ann. Myc. 11:434. 1913. *Morenoella australis* Speg., Fungi Puigg. no. 283. Bol. Acad. Nac. Ci. Cordoba 11:240. 1889. On Poa, Gramineae. Ascomata 100-150 μ, asci 14-16 x 10-12 μ, spores 6-8 x 2.5-3 μ. Syll. Fung. 9:1096.

3. Morenoina antarctica (Speg.) Theiss., Ann. Myc. 11:435. 1913. *Morenoella antarctica* Speg., Fungi Puigg. no. 283, Bol. Acad. Nac. Ci. Cordoba 11:240. 1889. On Rostkovia grandiflora, Juncaceae. Ascomata 500-1500 x 200-300 μ, asci 26-27 x 13-14 μ, spores 10 x 3 μ. Syll. Fung. 9:1096.

4. Morenoina inaequalis Maubl. and Arn., Ann. École Nac. Agr. Montp. 16:139, tab. 22. 1918. On Myrtaceae. Ascomata 250 x 80-100 μ, asci 22-28 x 9-12 μ, spores 3.5-4 x 8-10 μ. Syll. Fung. 24:430.

5. Morenoina graphoides (Sacc. and Berl.) Theiss., Ann. Myc. 11:435. 1913. *Lembosia graphoides* Sacc. and Berl., Misc. Myc. II, p. 6. On Olea, Oleaceae. Ascomata 125-500 μ, asci 40-45 x 12-14 μ, spores 12-14 x 6 μ. Syll. Fung. 9:1104.

6. Morenoina africana Doidge, Trans. Roy. Soc. So. Afr. 8:242. 1920.

On Dryopteris, Pteridophyta. Ascomata 120-400 x 65-100 μ, asci 23-27 x 10-12 μ, spores 12-14 x 5-6.5 μ.

7. Morenoina lucens (Harkn.) Theiss., Ann. Myc. 11:435. 1913. *Lembosia lucens* (Harkn.) Sacc., Syll. Fung. 9:1107. 1891. *Aulographum lucens* Harkn., Bul. Cal. Acad. Sci. p. 28, 1884. On Garrya, Cornaceae. Ascomata 500-1000 μ, asci 37 x 28 μ, spores 21 x 10 μ.

8. Morenoina curatellae (Starb.) Theiss., Ann. Myc. 11:435. 1913. *Morenoella curatellae* Starb., Bih. K. Svenska Vet. Akad. Handl., Stockholm, Afd. III, no. 1., 25:18. 1899. On Curatella, Dilleniaceae. Ascomata 200-300 x 100-150 μ, spores 24-27 x 13-16 μ. Syll. Fung. 16:653.

9. Morenoina serpens (Pat.) Theiss., Ann. Myc. 11:435. 1913. *Lembosia serpens* Pat., Ann. Jard. Buitenz. I, suppl. p. 122. 1897. On Pteridophyta. Ascomata 500-600 μ, asci 33-40 x 15-23 μ, spores 28 x 8 μ. Syll. Fung. 14:715.

20. THYROSOMA Sydow

Annales Mycologici 19:307. 1921.

Type: *T. pulchellum* Syd.

Characters: No mycelium, ascomata radiate, with numerous hymenia, no basal membrane, asci 8-spored, aparaphysate, spores hyaline, 2-celled.

1. Thyrosoma pulchellum Syd., *l. c.* On Erythroxylum, Erythroxylaceae. Asci 40-55 x 15-18 μ, spores 16-18 x 5-6 μ.

21. CAMPOA Spegazzini

Bol. Acad. Nac. Ci. Cordoba 25:90. 1921.

Type: *C. pulcherrima* Speg.

Characters: Asci in a stroma, not in cavities.

1. Campoa pulcherrima Speg., *l. c.* On Temu divaricata, Myrtaceae. Ascomata 100-125 μ, asci 70 x 15 μ, spores 12 x 5-6 μ.

22. PYCNOPELTIS Sydow

Annales Mycologici 14:365. 1916.

Type: *P. bakeri* Syd.

Characters: No mycelium, ascomata superficial, asci single, aparaphysate, 8-spored, spores brown, many-celled.

In the original description Sydow ascribes this genus to the Trichopeltaceae though a year later in the Synoptische Tafeln (88) it is placed in the Microthyriaceae.

1. Pycnopeltis bakeri Syd., *l. c.* On Ardisia, Myrsinaceae. Asci 24-28 x 20-24 μ, spores 15-18 x 4.5-6 μ. Syll. Fung. 24:431.

23. STEPHANOTHECA Sydow

Philipp. Jour. Sci. 9:178. 1914.

Type: *S. micromera* Syd.

Characters: No free mycelium, ascomata superficial, radiate, sterile in center, asci single in a peripheral ring zone, 8-spored, aparaphysate. Spores colorless, muriform.

This genus was originally described as of the Hemispheriaceae, but in the Synoptischen Tafeln (88) it is given as of the Microthyriaceae.

1. Stephanotheca micromera Syd., *l. c.* On Taxotrophis, Moraceae. Ascomata 200-300 μ, asci 20-28 x 14-19 μ, spores 11-16 x 4.5-5.5 μ.

2. Stephanotheca sydowii Petr., Ann. Myc. 29:246. 1931. On leaves. Ascomata 150-240 μ, asci 40-48 x 23-30 μ, spores 17-24 x 6-8 μ.

24. PYCNODERMA Sydow

Annales Mycologici 12:563. 1914.

Type: *P. bambusinum* Syd.

Characters: Like Pycnopeltis except spores hyaline, muriform.

This genus was originally ascribed to the Trichopeltaceae but later appears in the Microthyriaceae in the Synoptischen Tafeln (88).

1. Pycnoderma bambusinum H. and P. Syd., *l. c.* On Bambusa and Schizostachyum, Gramineae. Asci 24-27 x 20-25 μ, spores 16-18 x 7-9 μ. Syll. Fung. 24:433.

2. Pycnoderma circinans Syd., Ann. Myc. 15:236. 1917. On Bambusa, Gramineae. Ascomata 150-200 μ, asci 20-28 x 18-22 μ, spores 12-15 x 4.5-6 μ. Syll. Fung. 24:434.

3. Pycnoderma villaresiae Syd., Ann. Myc. 15:147. 1917. On Villaresia, Icacinaceae. Ascomata 150-220 μ, asci 22-28 x 18-22 μ, spores 13-16 x 3.5-4.5 μ. Syll. Fung. 24:434.

25. CALOTHYRIELLA v. Höhnel

Ber. Deutsch. Bot. Ges., 35:251. 1917.

Type. *C. pinophylla* v. Höhn.

Characters: Like Calothyrium but the spores hyaline, 1-celled, paraphysate.

Literature: Ann. Myc. 15:371. 1917.

1. Calothyriella osmanthi Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:70. 1925. On Osmanthus, Oleaceae. Ascomata 90 μ, asci 18 x 10 μ, spores 3-9 x 1-2 μ.

2. Calothyriella pinophylla v. Höhn., Ann. Myc. 15:372. 1917. On Pinus, Pinaceae. Ascomata 80-130 μ, asci 36-44 x 7-8 μ, spores 10-13 x 2-2.8 μ. Syll. Fung. 24:436.

26. STEGOTHYRIUM v. Höhnel

Sitz. K. Akad. Wiss. Wien, I Abt. 127:382. 1918.

Type: *S. denudans* (Rehm) v. Höhn.

Characters: Free mycelium present, ascomata circular, spores 1-celled, hyaline, aparaphysate.

1. Stegothyrium denudans (Rehm) v. Höhn., *l. c. Myiocopron denudans* Rehm, Hedw. 42:292. 1903. On dead leaves. Ascomata 100-120 μ, asci 35-40 x 7-8 μ, paraphysate, spores 12-15 x 2.5 μ.

27. CALOTHYRIOPELTIS Stevens and Ryan

Bernice P. Bishop Mus. Bul. 19:71. 1925.

Type: *C. scaevolae* Stev. and Ryan.

Synonym: *Calothyris* Clements and Shear (not Stev. and Ryan).

Characters: Free mycelium present, hyphopodiate, spores brown, 1-celled.

1. Calothyriopeltis clermontiae Stev. and Ryan, *l. c.*, 1925. On Clermontia, Campanulaceae. Ascomata 90-170 μ, asci 21-29 x 13-38 μ, spores 9 x 18-21 μ.

2. Calothyriopeltis metrosideri Stev. and Ryan, *l. c.*, 1925. On Metrosideros, Myrtaceae. Ascomata 270 μ, asci 23-30 x 32-38 μ, spores 9 x 14 μ.

3. Calothyriopeltis scaevolae Stev. and Ryan, *l. c.*, 1925. On Scaevola, Goodeniaceae. Ascomata 90-331 μ, asci 25-27 μ, spores 7-9 x 12-16 μ.

28. CAUDELLA Sydow

Annales Mycologici 14:90. 1916.

Type: *C. oligotricha* Syd.

Characters: Hyphopodiate, dimidiate, obscurely radiate, ostiolate, aparaphysate, hymenium simple, spores 2-celled, hyaline, caudate.

1. Caudella oligotricha Syd., *l. c.*, 1916. On Flacourtiaceae. Ascomata 300-380 μ, asci 85-105 x 16-18 μ, spores 25-34 x 6-7 μ.

2. Caudella psidii Ryan, Mycologia 16:179. 1924. On Psidium and Eugenia, Myrtaceae. Ascomata 280-391 μ, asci 96-210 x 19-24 μ, spores 12-14 x 36-48 μ. Ann. Myc. 28:380. 1930.

29. MYCOLANGLOISIA Arnaud

Ann. École Nat. Agr. Montp. 16:157. 1918.

Type: *M. echinata* Arn.

Characters: Like Trichothyrium, but bearing erect bristles in the region of the ostiole, and mycelium formed of interwoven filaments instead of ribbon-like thallus.

1. Mycolangloisia echinata Arn., *l. c.*, 1918. On a fungus (Parodiopsis ?). Ascomata 150-170 μ, ostiolate, spores 2-celled, hyaline, 5 x 25 μ, bristles 8-12 in number, 40 μ long.

30. CALOTHYRIUM Theissen

Annales Mycologici 10:160. 1912.

Type: *C. nebulosum* (Speg.) Theiss.

Characters: Mycelium present, non-hyphopodiate, ascomata round, radiate, ostiolate, hymenium simple, paraphysate or aparaphysate, spores 2-celled hyaline.

Literature: Ann. Myc. 25:326. 1927.

Arnaud (Les Asterinees, p. 149) united Calothyrium with Microthyrium; Sydow (Ann. Myc. 28:150. 1930) does not agree.

Synonymous genera:

1) *Calothyriolum* Speg., Bol. Acad. Nac. Ci. Cordoba 23:499. 1919. *C. caaguazuense* Speg., Fungi Guar. I, no. 296. We see no distinction warranting separating Spegazzinis' genus from Calothyrium. Some assume that it is the presence or absence of paraphyses, but *C. jaffulianum* Speg. is paraphysate, while *C. aphiaphynum* Speg. is aparaphysate.

2) *Leptopeltina* Speg., Bol. Acad. Nac. Ci. Cordoba 27:397. 1923. *L. antarctica* Speg. This genus is not to be distinguished from Calothyrium.

Nos. 1-8 paraphysate.

Nos. 9-15 aparaphysate.

Nos. 16-25 paraphyses not recorded.

1. Calothyrium dryadis (Rehm) v. Höhn., Ber. Deutsch. Bot. Ges. 37:111. 1919. *Microthyrium microscopicum* Desm. var. *dryadis* Rehm, Ann. Myc. 2:520. 1904. On Dryas, Rosaceae. Ascomata 70-90 μ, asci 25 x 7-8 μ, spores 8 x 2-2.5 μ, paraphysate.

2. Calothyrium leptosporum Theiss., Broteria 12:21. 1914. On Solanum, Solanaceae. Ascomata 100-130 μ, asci 55 x 14 μ, spores 10-12 x 3.5-4 μ, paraphysate. Syll. Fung. 24:39.

3. Calothyrium aphanellum Syd., Ann. Myc. 29:222. 1931. On Leea, Vitaceae. Ascomata 40-100 μ, asci 18-23 x 12-15 μ, spores 10-13 x 3.5-4 μ, paraphysate.

4. **Calothyrium jaffuelianum** (Speg.) Stev., n. comb. *Calothyriolum jaffuelianum* Speg., Bol. Acad. Nac. Ci. Cordoba 25:89. 1921. On Trevoa, Rhamnaceae. Ascomata 150-250 μ, asci 60-70 x 14-18 μ, spores 12-14 x 6-8 μ, paraphysate.

5. Calothyrium nebulosum (Speg.) Theiss., Öst. Bot. Zeitschr. 62:435. 1912. *Seynesia* (?) *nebulosa* Speg., Fungi. Guar. 3:117. 1891. Syll. Fung. 11:381. *Asterinella nebulosa* Theiss., Öst. Bot. Zeitschr. 62:435. 1912. *Calothyrium nebulosum* Arn., Ann. École Nat. Agr. Montp. 16:154. 1918. On Myrsine, Myrsinaceae. Ascomata 200-250 or 220 x 300 μ, asci 50-60 x 10-12 μ, spores 16 x 5-6 μ, paraphysate. Broteria 12:82. 1914; Ann. Myc. 10:177. 1912.

6. Calothyrium jahnii Syd., Ann. Myc. 28:147. 1930. On Clidemia, Melastomataceae. Ascomata 150-250 x 70-100 μ, or 80-140 μ, asci 17-28 x 14-16 μ, spores 10-16 μ, paraphysate.

7. Calothyrium psychotriae Doidge, Bothalia 1:76. 1921. On Psychotria, Rubiaceae. Ascomata 400-430 μ, asci 50-53 or 60-64 x 30 μ, spores 26-29 x 11.5-13 μ, paraphysate.

8. Calothyrium subcolliculosum Speg., Bol. Acad. Nac. Ci. Cordoba 23:502. 1919. On leaves. Ascomata 150-250 μ, asci 80-100 x 30-40 μ, spores 30-32 x 15-16 μ, paraphysate. Syll. Fung. 24:440.

9. Calothyrium stomatophorum (Ell. and Mart.) Theiss., Ann. Myc. 10:191. 1912. *Asterella stomatophorum* Sacc., Syll. Fung. 15:55. *Asterina stomatophora* Ell. and Mart., Jour. Myc. 1:98. 1885. On Quercus, Fagaceae. Ascomata 170-185 μ, asci 30-35 x 6-8 μ, spores 7-12 x 2.5-3 μ, aparaphysate. Syll. Fung. 9:394.

10. Calothyrium ingae Ryan, Mycologia 16:179. 1924. *Microthyrium ingae* (Ryan) Toro, Jour. Dept. Agr. Puerto Rico 10:13. 1926. On Inga, Leguminosae. Ascomata 108 μ, asci 14-17 μ in diameter, spores 2 x 12 μ, aparaphysate.

11. Calothyrium versicolor (Desm.) Theiss., Öst. Bot. Zeitschr. 62:217. 1912. *Microthyrium versicolor* (Desm.) v. Höhn., Frag. zur. Myk., 518. *Sacidium versicolor* Desm., Ann. Sci. Nat. 20:217. 1853. *Microthyrium rubi* Niessl, Fungi Chilensis 104. 1910. On Rubus, Rosaceae. Ascomata 100 μ, asci 48-50 x 7-8 μ, spores 14 x 4 μ, aparaphysate. Syll. Fung. 2:663. 1886.

12. **Calothyrium apiahynum** (Speg.) Stev., n. comb. *Calothyriolum apiahynum* Speg., Bol. Acad. Nac. Ci. Cordoba 23:503. 1919. On Persea (?), Lauraceae. Ascomata 90-100 μ, asci 40 x 35 μ, spores 20 x 9 μ, aparaphysate. Syll. Fung. 24:441.

13. Calothyrium vile Syd., Philipp. Jour. Sci. 21:142. 1922. On Phoebe, Lauraceae. Ascomata 150-300 μ, asci 50-80 x 18-22 μ, spores 18-24 x 9-12 μ, aparaphysate.

14. Calothyrium suttoniae Stev. and Ryan, Bernice P. Bishop Mus.

Bul. 19:71. 1925. On Suttonia, Myrsinaceae. Ascomata 79-217 μ, asci 39-45 x 27-30 μ, spores 9 x 27 μ, aparaphysate.

15. Calothyrium jodascum Speg., Bol. Acad. Nac. Ci. Cordoba 23:501. 1919. On Aniba, Lauraceae. Ascomata 100-150 μ, spores 20-30 x 15-16 μ. Syll. Fung. 24:439.

16. **Calothyrium ryani** Stev., n. name. *Calothyrium psychotriae* Ryan, Mycol. 16:179. 1924. (Not *C. psychotriae* Doidge). *Microthyrium psychotriae* Toro, Jour. Dept. Agr. Puerto Rico 10:13. 1926. On Psychotria, Rubiaceae. Ascomata 112 μ, asci 12 μ, spores 2 x 5 μ.

17. Calothyrium pinastri (Fckl.) Theiss., Öst. Bot. Zeitschr. 62:219. 1912. *Microthyrium pinastri* Fckl., Symb. Myc., App. 3, 29:876. Syll. Fung. 2:664. 1886. *Micropeltis pinastri* (Fckl. and Karst.) v. Höhn., Frag. no. 518. On Pinus, Pinaceae. Ascomata 140-250 μ, asci 16-20 x 4 μ, spores 8 x 1.3-1.6 μ. Conidia: Sirothyriella.

18. Calothyrium osmanthi Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:71. 1925. On Osmanthus, Oleaceae. Ascomata 75-180 μ, spores 1-3 x 7-9 μ.

19. **Calothyrium antarcticum** (Speg.) Stev., n. comb. *Leptopeltina antarctica* Speg., Bol. Acad. Nac. Ci. Cordoba 27:397. 1923. On Festuca, Gramineae. Ascomata 75-100 μ, spores 8-9 x 1.5 μ.

20. Calothyrium hippocrateae Ryan, Mycologia 16:179. 1924. *Microthyrium hippocratea* Toro, Jour. Dept. Agr. Puerto Rico 10:13. 1926. On Hippocratea, Hippocrataceae. Ascomata 84-96 μ, asci 14 x 17-19 μ, spores 2 x 12 μ.

21. Calothyrium wrightii (B. and C.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:117. 1913. *Asterina wrightii* B. and C., Grev. 4:10. 1875. On Cucurbitaceae. Ascomata 170-230 μ, asci 40-55 x 10-18 μ, spores 12-13 x 4.5-5 μ. Syll. Fung. 1:49; Broteria 12:73. 1913.

22. Calothyrium (?) bullatum (B. and C.) Theiss., Öst. Bot. Zeitschr. 62:217. 1912. *Microthyrium* bullatum v. Höhn., Frag. zur. Myk. 516. *Asterina bullata* B. and C., Jour. Linn. Soc. 10:374. 1869. Syll. Fung. 1:51. *Asterella bullata* B. and C. (sub Asterina). Syll. Fung. 1:45. 1882; 14:699. 1899. *Microthyrium albigenum* B. and C., Syll. Fung. 2:666. 1886. On Peperomia, Piperaceae. Spores 15 x 2.5 μ.

23. Calothyrium confertum (Theiss.) Theiss., Öst. Bot. Zeitschr. 62:276. 1912. *Microthyrium confertum* Theiss., Ann. Myc. 7:352. 1909. On Myrrhinium, Myrtaceae. Ascomata 150-200 μ, asci 42-45 x 16-18 μ, spores 12-15 x 8-11 μ.

24. Calothyrium pustulata (E. and M.) Theiss., Ann. Myc. 10:191. 1912. *Asterina pustulata* Ellis, Amer. Nat. 18:1148. 1884. *Asterella pustulata* Sacc., Syll. Fung. 9:395. On Quercus, Fagaceae. Ascomata 500-750 μ, asci 55-60 or 27-32 x 10 μ, spores 30-40 x 10-12 μ.

25. Calothyrium aspersum (Berk.) Theiss., Öst. Bot. Zeitschr. 62:219. 1912. *Microthyrium aspersum* v. Höhn., Frag. zur. Myk. no. 517. *Asterina aspersa* Berk., Syll. Fung. 1:45. 1882. On Laurus, Lauraceae. Spores 12-13 μ long.

31. APHANOPELTIS Sydow

Annales Mycologici 25:82. 1927.

Type: *A. phoebes* Syd.

Characters: Mycelium superficial, non-hyphopodiate, ascomata orbicular, radiate, basal membrane subhyaline, asci 8-spored, mucose-paraphasoid, spores 1-septate, hyaline.

1. Aphanopeltis phoebes Syd., *l. c.* On Phoebe, Lauraceae. Ascomata 60-130 μ, asci 20-30 x 12-17 μ, spores 8-12 x 5 μ.

32. PARASTERINA Theiss. and Sydow

Annales Mycologici 15:246. 1917.

Type: *P. melastomatis* (Lév.) Theiss.

Characters: Free mycelium present, hyphopodiate or bearing nodes; hymenium simple; ascomata radiate, not encrusted, round; spores brown, 2-celled; mycelial conidia 1-celled or lacking, paraphyses present, basal membrane present or lacking.

Synonymous genera:

1) *Maublancia* Arn., Ann. École Nat. Agr. Montp. 16:165. 1918. Type: *M. myrtacearum* Arn. I see no sufficient distinction from Parasterina.

2) *Wardinia* Arn., Ann. École Nat. Agr. Montp. 16:165. 1918. It is a Parasterina with intercalary hyphopodia. Syll. Fung. 24:476.

1. Parasterina bredmeyerae (Rehm) Theiss., Ann. Myc. 15:421. 1917. *Asterina marmellensis* Theiss., Frag. brasil. no. 134. *Seynesia marmellensis* Henn., Hedw. 43:375. 1904. *Asterina bredmeyerae* Rehm, Hedw. 40:161. 1901. On Bredmeyera, Polygalaceae; Sweetia, Leguminosae. Ascomata 250-300 μ, asci 40-70 x 15-25 μ, spores 14-22 x 7-10 μ. Syll. Fung. 16:1142. 1902; 17:866. 1905; Öst. Bot. Zeitschr. 63:123. 1913; Abh. K. K. Zool.-Bot. Ges. 7:39. 1913.

2. Parasterina myiocoproides (Sacc. and Berl.) Theiss., Ann. Myc. 15:421. 1917. *Asterina myiocoproides* Sacc. and Berl., Rev. Myc. 7-1885. *Wardinia myiocoproides* Arn., Ann. École Nat. Agr. Montp. 16:165. 1918. On Melastomataceae; Bromeliaceae. Ascomata .5 mm., asci 50-60 x 20-22 μ, spores 26-28 x 10-12 μ. Abh. K. K. Zool.-Bot. Ges. 7:39. 1913.

3. Patasterina pemphidioides (Cooke) Theiss., Ann. Myc. 15:246.

1917. *Asterina pemphidioides* Cooke, Grev. 5:16. 1876. Syll. Fung. 1:40. *Asterina hobsoni* Berk., in herb. Kew, Hobson no. 6. *Asterina crustosa* B. and Cke., Grev. 21:76. 1892. Syll. Fung. 11:255. *Meliola fumago* Niessl, Hedw. 20:99. 1881. *Dimerosporium fumago* Sacc., Syll. Fung. 1:53. 1882. *Dimerium* S. and S., Syll. Fung. 18:357. 1906; *Lembosia* Wint., Flora 67:266. 1884; *Asterina* v. Höhn., Frag. zur. Myk. no. 54. On Eugenia, Myrtaceae; Celastrus, Celastraceae. Ascomata 250-400 or 500 x 300-350 μ, asci 60-95 x 50-65 μ, spores 32-40 x 14-16 μ. Abh. K. K. Zool.-Bot. Ges. 7:40. 1913.

4. **Parasterina myrtacearum** (Arn.) Stev., n. comb. *Maublancia myrtacearum* Arn., Ann. École Nat. Agr. Montp. 16:159. 1918. On Myrtaceae. Ascomata 300-450 μ, asci 70-90 x 25-30 μ, spores 30-35 x 14-16 μ. Bull. Soc. Myc. Fr. 36:39. 1920. Syll. Fung. 24:487.

5. Parasterina ramosii Syd., Ann. Myc. 15:246. 1917. *Microthyrium ramosii* Syd., Ann. Myc. 15:238. 1917. On Eugenia, Myrtaceae. Ascomata 200-300 μ, to 600 x 200-250 μ, asci 50-80 x 35-48 μ, spores 26-30 x 12-14 μ. Syll. Fung. 24:478.

6. Parasterina jasminicola (Yates) Mendoza, Philipp. Jour. Sci. 49:449. 1932. *Asterina jasminicola* Yates, Philipp. Jour. Sci. 13:373. 1918. On Jasminium, Oleaceae. Asci 22-26 μ, spores 17-19 x 8-10 μ. Syll. Fung. 24:464.

7. **Parasterina lobeliae** (Stev. and Ryan) Stev., n. comb. *Asterina lobeliae* Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:74. 1925. On Lobelia, Campanulaceae. Ascomata 216 μ, asci 9-14 x 39-54 μ, spores 3-5 x 12-14 μ.

8. Parasterina canthii (Yates) Mendoza, Philipp. Jour. Sci. 49:446. 1932. *Asterina canthii* Yates, Philipp. Jour. Sci. 13:372. 1918. On Canthium, Rubiaceae. Ascomata 90-175 μ, asci 30-40 x 8-10 μ, spores 10-12 x 3-3.5 μ, hyphopodia opposite, 1-celled, oblong-cylindric, 4-5 x 5 μ. Syll. Fung. 24:468.

9. **Parasterina rhabdodendri** (Syd.) Stev., n. comb. *Asterina rhabdodendri* Syd., Ann. Myc. 14:92. 1916. On Rhabdodendron, Rutaceae. Ascomata 130-200 μ, asci 35-45 x 32-40 μ, spores 23-26 x 12-15 μ, hyphopodia opposite, cylindric, entire, 1-celled. Syll. Fung. 24:469.

10. Parasterina transiens (Theiss.) Theiss., Ann. Myc. 15:421. 1917. *Asterina transiens* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:42, tab. 6, figs. 29-30 and tab. 8, fig. 6, 1913. On Miconia, Melastomataceae. Ascomata 150-220 μ, or 250-340 x 170-220 μ, asci 32-40 x 22 μ, spores 17-19 x 6-8 μ, hyphopodia alternate, 1-celled, straight, rod-shaped.

11. Parasterina eugeniae (Yates) Mendoza, Philipp. Jour. Sci. 49:448. 1932. *Asterina eugeniae* Yates (not *A. eugenia* Mont. or Thüm.), Philipp. Jour. Sci. 12:371. 1917. On Eugenia, Myrtaceae. Ascomata 225-275 μ,

asci 50-60 x 20-22 μ, spores 20 x 5 μ, hyphopodia alternate, cylindric, 10-12 x 6 μ. Syll. Fung. 24:461.

12. Parasterina fagarae (Yates) Mendoza, Philipp. Jour. Sci. 49:448. 1932. *Asterina fagarae* Yates, Philipp. Jour. Sci. 13:373. 1918. On Fagara, Rutaceae. Ascomata 170-220 μ, asci 50-55 x 35-40 μ, spores 22-25 x 11-13 μ, hyphopodia alternate, cylindric, 10-15 x 4-5 μ. Syll. Fung. 24:469.

13. Parasterina tayabensis (Yates) Mendoza, Philipp. Jour. Sci. 49:454. 1932. *Asterina tayabensis* Yates, Philipp. Jour. Sci. 12:372. 1917. On leaves. Ascomata 130-200 μ, asci 25-30 μ, spores 22-10 μ, hyphopodia cylindric, alternate 10-12 x 5-7 μ. Syll. Fung. 24:475.

14. Parasterina nycticali (Yates) Mendoza, Philipp. Jour. Sci. 49:450. 1932. *Asterina nycticali* Yates, Philipp. Jour. Sci. 12:371. 1917. On Nycticalos, Bignoniaceae. Ascomata 90-110 μ, asci 26-28 x 18-20 μ, spores 15-18 x 7-8 μ, hyphopodia alternate, 1-celled, lobed, 10-11 x 12-15 μ. Syll. Fung. 24:445.

15. Parasterina momordicae (Yates) Mendoza, Philipp. Jour. Sci. 49:450. 1932. *Asterina momordicae* Yates, Philipp. Jour. Sci. 13:374. 1918. On Momordica, Cucurbitaceae. Ascomata 80-90 μ, asci 35-40 x 22-24 μ, spores 19-21 x 9-11 μ, hyphopodia 1-celled, alternate, lobed, 8-12 μ. Syll. Fung. 24:449.

16. Parasterina japonica (Theiss.) Theiss., Ann. Myc. 15:421. 1917. *Asterina japonica* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:43, tab. 6, figs. 22-23 and tab. 8, fig. 8, 13, 14. 1913. On Elaeagnus, Elaeagnaceae. Ascomata 140-200 μ, asci 45-68 x 25-30 μ, spores 20-23 x 9-11 μ, hyphopodia 1-celled, lobed, alternate. Syll. Fung. 24:451.

17. **Parasterina sydowii** (Syd.) Stev., n. comb. *Asterina melanotes* Syd., Ann. Myc. 27:59. 1929; not *P. melanotes* Syd., Philipp. Jour. Sci. 21:142. 1922. On Blakea, Melastomataceae. Ascomata 180-300 μ, asci 48-65 x 30-45 μ, spores 17-28 x 10-14.5 μ, hyphopodia 1-celled, lobed, alternate.

18. Parasterina astroniae (Yates) Mendoza, Philipp. Jour. Sci. 49:446. 1932. *Asterina astroniae* Yates, Philipp. Jour. Sci. 12:370. 1917. On Astronia, Melastomataeae. Ascomata 160-200 μ, 45-55 x 28-35 μ, spores 18-28 x 10-12 μ, hyphopodia alternate, 1-celled, ovoid or lobed, 5-6 x 4-6 μ. Syll. Fung. 24:458.

19. Parasterina melastomatis (Lév.) Theiss., Ann. Myc. 15:246. 1917. *Asterina melastomatis* (Lév.) Ann. Sci. Nat. 3:59. 1845. On Miconia, Melastomataceae. Ascomata 250-320 μ, asci 42-50 x 26-30 μ, spores 26-30 x 11-13 μ, hyphopodia 1-celled, lobed, alternate. Syll. Fung. 1:51; Abh. K. K. Zool.-Bot. Ges. 7:43. 1913; Est. Agr. Moca no. 14.

20. Parasterina cipadessae (Yates) Mendoza, Philipp. Jour. Sci.

49:446. 1932. *Asterina cipadessae* Yates, Philipp. Jour. Sci. 12:371. 1917. On Cipadessa, Meliaceae. Ascomata 150-250 μ, asci 35-45 x 22-27 μ, spores 28-32 x 10-12 μ, hyphopodia alternate or opposite, lobed, 7-10 μ. Syll. Fung. 24:460; Ann. Myc. 29:225. 1931.

21. Parasterina hypophylla (Schw.) Theiss., Ann. Myc. 15:421. 1917. *Asterina hypophylla* (Schw.) Berk., Ann. Myc. 10:165. 1912. *Dothidea hypophylla* Schw., in herb. On Melastomataceae. Ascomata 220-300 μ, asci 58-68 x 36-50 μ, spores 28-32 x 13-16 μ, hyphopodia 1-celled, lobed, cover straight. Abh. K. K. Zool.-Bot. Ges. 7:44. 1913.

22. Parasterina saccardoana (Theiss.) Theiss., Ann. Myc. 15:421. 1917. *Asterina saccardoana* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:45. 1913. On Sideroxylon, Sapotaceae. Asci 80-100 x 55-80 μ, spores 46-53 x 22-26 μ, hyphopodia 1-celled, entire, irregular, cover straight. Syll. Fung. 24:471.

23. Parasterina melastomataceae (Henn.) Theiss., Ann. Myc. 15:421. 1917. *Asterina melastomataceae* Theiss., Frag. brasil. no. 127. *Seynesia melastomataceae* Henn., Ann. Myc. 10:165. 1912. Syll. Fung. 17:866. *Lembosia melastomatum* Lév., var. *asterinoides* Rehm, in Rick. F. Austro-Amer. 177. *Asterina usterii* Maire, Ann. Myc. 6:146, fig. 3. 1908. On Miconia, Melastomataceae; Euphorbiaceae; Zollerina, Leguminosae. Asci 38-58 x 20-30 μ, spores 18-22 x 7-10 μ, hyphopodia 1-celled, entire, regular, cover straight. Syll. Fung. 22:542; Abh. K. K. Zool.-Bot. Ges. 7:46. 1913; Öst. Bot. Zeitschr. 63:123. 1913.

24. Parasterina dilleniae (Syd.) Mendoza, Philipp. Jour. Sci. 49:447. 1932. *Asterina dilleniae* Syd., Philipp. Jour. Sci. 9:181. 1914. On Dillenia, Dilleniaceae. Ascomata 140-200 μ, asci 40-60 x 35-45 μ, spores 20-25 x 10-12 μ, hyphopodia alternate, 1-celled, globose, 10-15 x 9-11 μ. Syll. Fung. 24:449.

25. **Parasterina miconiae** (Theiss.) Stev., n. comb. *Asterina miconiae* Theiss., Ann. Myc. 11:440. 1913. On Miconia and Clidemia, Melastomataceae. Ascomata 150-220 μ, asci 50 x 22-28 μ, spores 20-25 x 9-11 μ. Hyphopodia alternate, 1-celled, cylindrical or globose. Syll. Fung. 24:459; Jour. Dept. Agr. Puerto Rico 13-14:231. 1930.

26. Parasterina platystoma (Cke. and Mass.) Theiss., Ann. Myc. 15:421. 1917. *Asterina platystoma* Cke. and Mass., Grev. 18:6. 1889. On Castanospermum, Leguminosae. Ascomata 140-170 μ, or 160-280 μ, asci 40-48 x 28-34 μ, spores 22-26 x 8-11 μ, hyphopodia 1-celled, entire, regular, cover mycelium straight. Syll. Fung. 9:382; Abh. K. K. Zool.-Bot. Zeitschr. 7:47. 1913.

27. **Parasterina holocalycis** (Speg.) Stev., n. comb. *Asterina holocalycis* Speg., Ann. Mus. Nac. Buenos Aires 23:81. 1912. On Holocalyx, Leguminosae. Ascomata 100-150 μ, asci 50 x 25-30 μ, spores 22-26 x 8-10 μ, hyphopodia alternate, 1-celled, subglobose, 12-15 μ, verrucose. Syll. Fung. 24:457.

28. Parasterina colliculosa (Speg.) Theiss., Ann. Myc. 15:421. 1917. *Asterina colliculosa* Speg., Fungi Puigg. no. 347, Bol. Acad. Nac. Ci. Cordoba 11:559. 1889. Syll. Fung. 9:386. 1891. On Eugenia, Myrtaceae; Weinmannia, Cunoniaceae. Ascomata 200-250 μ, asci 67-70 x 30-40 μ, spores 28-39 x 14-15 μ, hyphopodia 1-celled, entire, regular, cover mycelium straight.

Var. **macrospora** Stev. n. comb. *Asterina colliculosa* Speg. var. *macrospora* Theiss. *Asterina paraphysata* Wint., Hedw. 31:103. 1892. On leaves. Syll. Fung. 11:256; Abh. K. K. Zool.-Bot. Ges. 7:48. 1913.

29. Parasterina rigida Doidge, Trans. Roy. Soc. So. Afr. 8:246. 1921. On Oncinotis, Apocynaceae. Ascomata 250-400 μ, asci 60-75 x 30-40 μ, spores 27-33 x 13-15 μ.

30. Parasterina puttemansii (Henn.) Theiss., Ann. Myc. 15:421. 1917. *Asterina puttemansii* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:49. 1913. *Asterella puttemansii* Henn., Hedw. 48:11. 1908. *Asterina mandaquiensis* Henn., Hedw. 48:12. 1908. *Seynesia colliculosa* Rehm (not Speg.), Hedw. 37:324. 1898. Syll. Fung. 16:640. On Myrtaceae. Ascomata 250-450 μ or 350-450 x 200-280 μ, asci 52-64 x 35-42 μ, spores 26-32 x 10-13 μ, hyphopodia 1-celled, entire, regular. Syll. Fung. 24:461; Öst. Bot. Zeitschr. 63:121. 1913.

31. Parasterina consimilis (v. Höhn.) Theiss., Ann. Myc. 15:421. 1917. *Asterina consimilis* v. Höhn., Sitz. K. Akad. Wiss. Wien, Abt. I, 118:862. 1909. On leaves. Ascomata 200-250 μ, asci 45-50 x 24-25 μ, spores 27-28 x 13 μ, hyphopodia 1-celled, entire, regular. Syll. Fung. 22:543; Abh. K. K. Zool.-Bot. Ges. 7:50. 1913.

32. Parasterina laxa Doidge, Bothalia 2:201. 1927. *Parasterina brachystoma* (Rehm) Theiss. var. *laxa* Doidge, Trans. Roy. Soc. So. Afr. 7:245. 1920. On Grumilea, Oxyanthus, Plectronia, Rubiaceae. Ascomata 200-350 μ, asci 53-65 x 40-50 μ, spores 30-33 x 15-16.5 μ, hyphopodia alternate, 1-celled, entire, regular.

33. **Parasterina maublancii** (Arn.) Stev., n. comb. *Asterina maublancii* Maub., Bull. Soc. Myc. Fr. 36:38. 1920. *Asterina melastomatis* Lév. var. *maublancii* Arn., Ann. École Nac. Agr. Montp. 16:169. 1918. On Melastomataceae. Asci 65-82 x 38-48 μ, spores 30-35 x 12-16 μ, hyphopodia 1-celled, ovoid. Syll. Fung. 24:460.

34. Parasterina implicata Doidge, Trans. Roy. Soc. So. Afr. 8:244. 1921. On Sideroxylon, Sapotaceae. Ascomata 300-400 μ, asci 57-73 x 50-57 μ, spores 35-40 x 13-15 μ, hyphopodia 1-celled, entire, regular.

35. Parasterina melanotes Syd., Philipp. Jour. Sci. 21:142. 1922. On Polyosoma, Saxifragaceae. Ascomata 400-700 μ, asci 60-85 x 50-60 μ, spores 35-40 x 17-19 μ, hyphopodia 1-celled, regular.

36. Parasterina brachystoma (Rehm) Theiss., Ann. Myc. 15:420. 1917. *Asterina brachystoma* Theiss., Öst. Bot. Zeitschr. 63:121. 1913.

Seynesia brachystoma Rehm, Hedw. 37:325. 1898. *Asterina multiplex* Rehm, Asco. no. 1706. *Asterina megalosperma* Speg., Rev. Mus. La Plata 15:27. 1896. Ule 1143, Herh. Pasz., *sub Asterina paraguayensis* Speg. On Styrax, Styraceae; Eugenia, Myrtaceae; Anonaceae. Ascomata 250 μ, asci 60-70 x 40-50 μ, spores 35-40 x 11-15 μ. Syll. Fung. 22:541.

37. Parasterina samarensis (Yates) Mendoza, Philipp. Jour. Sci. 49:453. 1932. *Asterina ramosii* Yates, Philipp. Jour. Sci. 13:373. 1918. On Dillena, Dilleniaceae. Ascomata 80-120 μ, asci 18-20 x 15-17 μ, spores 14-16 x 6-8 μ.

38. Parasterina litseae (Yates) Mendoza, Philipp. Jour. Sci. 49:448. 1932. *Asterina litseae* Yates, Philipp. Jour. Sci. 13:373. 1918. On Litsea, Lauraceae. Ascomata 100-140 μ, asci 28-30 x 18-24 μ, spores 15-17 x 8-9 μ. Syll. Fung. 24:455.

39. Parasterina homalomeae Mendoza, Philipp. Jour. Sci. 49:448. 1932. On Homalomea, Araceae. Ascomata 180-223 x 120-403 μ, asci 22-26 μ, spores 14-20 x 8-11 μ.

40. Parasterina spinosa Mendoza, Philipp. Jour. Sci. 49:453. 1932. On Cissus, Vitaceae. Ascomata 95-172 μ, asci 35-46 x 29-31 μ, spores 22-25 x 9-10 μ.

41. Parasterina africana v. Byl, So. Afr. Jour. Sci. 26:319. 1929. On Cola, Sterculiaceae. Ascomata 80-210 μ, asci 24-28 μ, spores 18-24 x 8-12 μ.

42. **Parasterina tonduzi** (Speg.) Ryan, n. comb. *Asterina tonduzi* Syd., Ann. Myc. 25:74. 1927. *Opeasterinella tonduzi* Speg., Bol. Acad. Nac. Ci. Cordoba 23:571. 1919. On Xylosoma, Flacourtiaceae. Ascomata 80-100 μ, asci 40-45 x 40 μ, spores 20-24 x 10-12 μ, paraphysate. Syll. Fung. 24:487.

33. ENGLERULASTER v. Höhnel

Frag. z. Myk. 10:520. Sitz. K. Akad. Wiss. Wien 119:454. 1910.

Type: *E. orbicularis* (B. and C.) v. Höhn.

Characters: Ascomata astomate, mucose dissolving, paraphysate.

This genus differs from Asterina only in that the ascomata undergo a slimy dissolution.

Literature: Broteria 12:78. 1914.

1. Englerulaster baileyi (B. and Br.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:21. 1913. *Asterina baileyi* B. and Br., Proc. Linn. Soc. N. S. Wales 5:89. 1860. *Asterina nigrita* Cooke, in herb. *Asterella hakeae* McAlp., Proc. Linn. Soc. N. S. Wales 22:37. 1897. On Hakea, Proteaceae. Ascomata 180-240 μ or 180 x 340 μ, asci 65-85 x 28-30 μ, spores 20-24 x 8-9 μ. Syll. Fung. 9:380, 14:699; Broteria 12:80. 1914; Ann. Myc. 10:22. 1912.

2. Englerulaster orbicularis (B. and C.) v. Höhn., Sitz. K. Akad. Wiss. Wien 119:454. 1910. *Asterina orbicularis* B. and C., Grev. 4:8. 1875. Rabh.-Wint., Fung. Eur. no. 3439. *Dimerosporium orbiculare* Mart., Jour. Myc. 1:146. 1885. Ell. and Ev., N. Amer. Pyren. Bull. Torr. Bot. Club 18:32. 1891. On Ilex, Prinos, Aquifoliaceae. Ascomata 150-170 μ, asci 54-57 x 44-50 μ, aparaphysate, spores 33-36 x 15-18 μ. Syll. Fung. 1:46; Trans. Roy. Soc. So. Afr. 8:243. 1920; Broteria 11:78. 1913.

34. ENGLERA Stevens, new genus

Type: *E. atrides* (Syd.) Stev.

Characters: Like Englerulaster except for the absence of paraphyses.

1. **Englera atrides** (Syd.) Stev., n. comb. *Englerulaster atrides* Syd., Ann. Myc. 15:239. 1917. On Modecca, Passifloraceae. Ascomata 100-150 μ, asci 40-60 x 35-40 μ, spores 24-27 x 11-12 μ. Syll. Fung. 24:490; Ann. Myc. 29:245. 1927.

2. **Englera popowiae** (Doidge) Stev., n. comb. *Englerulaster popowiae* Doidge, Trans. Roy. Soc. So. Afr. 8:243. 1920. On Popowia, Anonaceae. Ascomata 160-190 μ, asci 40-47 x 30-40 μ, spores 21-27 x 10-13.5 μ.

3. **Englera continuus** (H. and P. Syd.) Stev., n. comb. *Dimerosporium continuum* Arn., Ann. École Nat. Agr. Montp. 16:178. 1918. *Englerulaster continuus* H. and P. Syd., Ann. Myc. 12:201. 1914. On Ilex, Aquifoliaceae. Ascomata 200-300 μ, asci 55-75 x 40-50 μ, spores 25-34 x 12-16 μ. Syll. Fung. 24:490.

4. **Englera gymnosporiae** (Henn.) Stev., n. comb. *Englerulaster gymnosporiae* Theiss., Beiheft. Bot. Centralbl. Abt. II. 29:54. 1913. *Dimerosporium gymnosporium* Sacc., Syll. Fung. 16:408. 1902; Ann. Myc. 7:546. 1909. *Dimerosporium gymnosporiae* Henn., Ann. Nat. Hofmus. Wien p. 3. 1900. On Gymnosporia, Celastraceae. Ascomata 90-110 μ, spores 18-24 x 10-13 μ. Broteria 12:80. 1914; Trans. Roy. Soc. So. Afr. 5:719. 1917.

5. **Englera sinensis** (Syd.) Stev., n. comb. *Englerulaster sinensis* Syd., Ann. Myc. 20:62. 1920. On Ilex, Aquifoliaceae. Asci 50-60 x 35-50 μ, spores 34-38 x 17-19 μ, aparaphysate.

6. **Englera alpinus** (Rac.) Stev., n. comb. *Englerulaster alpinus* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:19. 1913. *Asterina alpina* Rac., Parasit. Algen und Pilze Javas 3:34. 1900. On Acrondia, Eleocarpaceae. Ascomata 400 μ, asci 68-80 x 50-52 μ, spores 38 x 17 μ.

7. **Englera asperulispora** (Gaill.) Stev., n. comb. *Englerulaster asperulispora* Gaill., Bull. Soc. Myc. Fr. 13:180. 1897. *Asterella opulenta* Henn., Hedw. 43:83. 1904. *Asterina opulenta* Sacc., Syll. Fung. 17:876. 1905. *Asterina asperulispora* Gaill. Bull. Soc. Myc. Fr. 13:180. 1897. On

Ilex, Aquifoliaceae. Ascomata 120-150 μ, asci 60-80 x 40-60 μ, spores 32-40 x 14-17 μ. Syll. Fung. 14:694; N. Y. Acad. Sci. 8:22. 1926.

8. **Englera orbiculata** (McAlp.) Stev., n. comb. *Englerulaster orbiculatum* McAlp., Beiheft. Bot. Centralbl. 29:53. 1913. *Dimerosporium orbiculatum* McAlp., Linn. Soc. N. S. Wales 28:97. 1903. *Dimerium orbiculatum* Sacc., Syll. Fung. 17:537. 1905. On Grevillea, Proteaceae. Ascomata 70-90 μ, asci 50-55 μ, spores 30-35 x 10-12 μ.

9. **Englera ulei** (Wint.) Stev., n. comb. *Englerulaster ulei* Theiss., Beiheft. Bot. Centralbl. 29:51. 1913. *Dimerosporium ulei* Wint., Hedw. 25:25. 1885. *Dimerosporium paurotrichum* Sacc. and Berl., Rev. Myc. 7. 1885. *Dimerium ulei* Sacc., Syll. Fung. 17:537. 1905. *Dimerosporium oligotrichum* Sacc. and Berl., Rev. Myc. 7. 1885. On Tibouchina, Melastomataceae. Ascomata 210-300 μ, asci 65-85 x 42-52 μ, spores 30-33 x 16-17 μ. Broteria 12:81. 1914.

35. CLYPEOLELLA v. Höhnel

Sitz. K. Akad. Wiss. Wien 119:403. 1910.

Type: *C. inversa, cf.* Theiss., Centralbl. Bakt., Abt. II, 34:229. 1912.

Characters: Free mycelium present, ascomata dimidiate, radiate, no ostiole, no typical paraphyses, spores brown, 2-celled, hyphopodia present, conidia 4-celled.

The original generic description by v. Höhnel reads "parapen breitfädig." In the same article the type species, *C. inversa*, is given as with typical paraphyses.

1. Clypeolella ricini Rac., ap. Theiss., Centralbl. Bakt. 34:233. 1912. *Asteria ricini* Rac., in herb. On Ricinus, Euphorbiaceae. Ascomata 50-110 μ, asci 26-28 μ, spores 17-20 x 9-10 μ. Syll. Fung. 24:489.

2. Clypeolella clermontiae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:72. 1925. On Clermontia, Campanulaceae. Ascomata 86-90 μ, asci 36-45 x 27-30 μ, spores 9-13 x 21-19 μ.

3. Clypeolella inversa (Sacc. and Trott.) v. Höhn., Sitz. K. Akad. Wiss. Wien 119:403. 1910. *Asterina inversa* Sacc. and Trott., Syll. Fung. 22:544. 1913. On Maytenus, Celastraceae. Ascomata 160-270 μ, asci 50-65 x 35-40 μ, spores 22-24 x 10 μ.

4. Clypeolella solani Theiss., Centralbl. Bakt. 34:233. 1912. On Solanum, Solanaceae. Ascomata 35-55 μ, asci 45-55 x 38-45 μ, spores 25-27 x 10-13 μ. Syll. Fung. 24:489.

5. Clypeolella leemingii (E. and E.) Theiss., Centralbl. Bakt. 34:231. 1912. *Asterina leemingii* E. and E., Proc. Acad. Nat. Sci., Philadelphia, p. 128. 1893. On Galax, Diapensiaceae. Ascomata 180-250 μ, asci 55-70 x 35-30 μ, spores 28-35 x 11-12 μ. Syll. Fung. 11:256.

6. Clypeolella stellata (Speg.) Theiss., Centralbl. Bakt. 34:323. 1912. *Asterina stellata* Speg., Fungi Puigg. no. 358, Acad. Nac. Ci. Cordoba, Bol. 11:567. 1889. On Weinmannia, Compositae; Saxifragaceae. Ascomata 120-140 μ, asci 50-62 x 40-48 μ, spores 30-36 x 12-16 μ. Syll. Fung. 9:391; 16:640.

7. Clypeolella mate (Speg.) Theiss., Centralbl. Bakt. 34:232. 1912. *Asterina mate* Speg., Ann. Mus. Nac. Buenos Aires Ser. 3, 10:130. 1909; *ibid.* 12:428. 1909. On Ilex, Aquifoliaceae. Ascomata 100 μ, asci 50-70 x 40-50 μ, spores 38-40 x 15-18 μ. Syll. Fung. 22:539.

36. TRICHASTERINA Arnaud

Annales de l'École Nationale d'Agriculture Montpellier 16:172. 1918.

Type: *T. styracis* (Theiss.) Arn.

Characters: The same as Asterina, but with the mycelium setose; paraphysate.

1. Trichasterina styracis (Theiss.) Arn., *l. c.* *Parasterina styracis* Theiss., Ann. Myc. 15:421. 1917. *Asterina styracis* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:41. 1913. *Asterina silvatica* Theiss., Fungi brasil. no. 77, Ann. Myc. 10. 1912. *Asterina silvatica* Rehm, Rick. Fungi Austro-Amer. no. 386. 1905. On Styrax, Styraceae. Ascomata 230-300 μ, asci 70-90 x 45-60 μ, spores 30-35 x 19-16 μ. Syll. Fung. 24:477.

37. ASTERINA Léveillé

Ann. Sci. Nat. ser. 3, Bot. 3:59. 1845.

Type: *A. azare* Lév.

Characters: Free mycelium present, hyphopodia or node cells, hymenium simple, ascomata dimidiate, radiate, astomate, circular, spores brown, 2-celled, aparaphysate.

Conidial state: Asterostomella.

Literature: Abh. K. K. Zool.-Bot. Ges. 7:1-30. 1913; Trans. Roy. Soc. So. Afr. 8:235-282. 1920.

Synonomous genera:

1) *Dimerosporium* Fckl., Symb. Myc. 86. 1869.

2) *Myxasterina* v. Höhn., Sitz. K. Akad. Wiss. Wien 118:870. 1909.

3) *Opeasterina* Speg., Bol. Acad. Nac. Ci. Cordoba 23:498. 1919.

4) *Asterella* Sacc., Myc. Centralbl. 3:274. 1913. Syll. Fung. 9:393. This genus was described as with hyaline spores. The type, *A. megalospora* has brown spores and belongs to Asterina. Hyaline spored species are not known. Ann. Myc. 15:424. 1917.

5) *Asterolibertia* Arn., Ann. École Nac. Agr. Montp. 16:165. 1918. Type: *A. coupeiae* (Henn.) Arn. For the present purpose we place this back in the genus Asterina.

6) *Anariste* Syd., Ann. Myc. 25:76. 1927. Type: *A. poliothea* Syd. This genus is said by Sydow to differ from Asterina in that the asci are embedded in a mucose mass. Instead of hyphopodia it produces characteristic hyphopodia-like branches. The spores are divided early into cells. We here consider it as an Asterina.

Theissen recognized three subgenera:

1) Euasterina: no basal membrane, paraphyses present. This group now forms the genus *Parasterina.*

2) Dimerosporium: no basal membrane, no paraphyses.

3) Clypeolaster: basal membrane present, no paraphyses.

The following species are separated as accurately as is possible with the information of published descriptions into the subgenera Dimerosporium and Clypeolaster. Under each of these the species are arranged in order of maximum spore length.

Sydow in later years has introduced the term "paraphsoides" and has also described "very tenuous basal membranes" which in earlier years would not have been noted. Thus there is doubt in many instances as to allocation to the subgenera.

Subgenus DIMEROSPORIUM Theissen

1. Asterina effusa Cke. and Mass., Grev. 15:101. 1886. *Englerula effusa* (Cke. and Mass.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:24. 1913. On Pittosporum, Pittosporaceae. Spores 10 x 5-6 μ. Syll. Fung. 9:382. 1891.

2. Asterina nigerrima Ellis, Bull. Torr. Bot. Club 7:91. 1881. On Erigeron, Compositae. Ascomata 75-100 μ, asci 30-34 x 10 μ, spores 12 x 3-4 μ. Syll. Fung. 1:48.

3. Asterina memorae Henn., Hedw. 43:373. 1904. On Memora, Bignoniaceae. Ascomata 150 μ, asci 30-35 x 13-17 μ, spores 10-13 x 4.5-5.5 μ. Syll. Fung. 17:879; Abh. K. K. Zool.-Bot. Ges. 7:57. 1913. Theissen's key 21.

4. Asterina ixorae Ryan, Mycologia 16:182. 1924. On Ixora, Rubiaceae. Ascomata 168-180 μ, asci 12 x 55 μ, spores 12-14 x 3-5 μ.

5. Asterina aspidii (Henn.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:75. 1913. *Asterella aspidii* Henn., Hedw. 43:141. 1904. Syll. Fung. 17:884. *Opeasterina aspidii* Speg., Bol. Akad. Nac. Ci. Cordoba 23:499. 1919. On Aspidium, Pteridophyta; Maba, Ebenaceae. Ascomata 50-80 μ, asci 25-30 x 20-25 μ, spores 13 x 7-8 μ. Theissen's key 44.

6. Asterina insignis Karst. and Roum., Rev. Myc. 12:77. 1890. On Lauraceae. Ascomata 160-200 μ, spores 13-14 x 5-6 μ. Doubtful species. Syll. Fung. 9:384; Abh. K. K. Zool.-Bot. Ges. 7:112. 1913. Theissen's key 95.

7. Asterina zizphiae Yates, Philipp. Jour. Sci. 13:375. 1918. On Zizyphus, Rhamnaceae. Ascomata 120-170 μ, asci 40 x 30 μ, spores 15 x 10 μ. Syll. Fung. 24:467.

8. Asterina lawsoniae Henn. and Nym., Monsunia 1:159. 1899. *Dimerosporium lawsoniae* Arn., Ann. École Nac. Agr. Montp. 16:179. 1918. On Lawsonia, Lythraceae. Ascomata 80-120 μ, asci 22-30 x 20-26 μ, spores 9-15 x 7-9 μ. Syll. Fung. 16:646; Abh. K. K. Zool.-Bot. Ges. 7:81. 1913. Theissen's key 54.

9. Asterina dilabens Syd., Ann. Myc. 2:168. 1904. On Sarmienta, Rhytidophyllum, Gesneria, Gesneriaceae; Solanum, Solanaceae; Tetrazygia, Melastomataceae; Hillia, Rubiaceae. Ascomata 90-200 μ, asci 22-26 x 18-24 μ, spores 12-15 x 7-9 μ. Syll. Fung. 17:879; Mycologia 16:181. 1924; Abh. K. K. Zool.-Bot. Ges. 7:90. 1913; N. Y. Acad. Sci. 8:18. 1926. Theissen's key 66.

10. Asterina undulata Doidge, Trans. Roy. Soc. So. Afr. 8:258. 1920. On Viola, Violaceae. Near *A. veronicae*. Asci 20-24 x 17-20 μ, spores 13-15 x 6-8.5 μ. Doidge's key 21.

11. Asterina hians Syd., Ann. Myc. 14:91. 1916. On Dioscorea, Dioscoreaceae. Ascomata 65-90 μ, asci 25-35 x 24-29 μ, spores 14-16 x 6-7 μ. Syll. Fung. 24:450.

12. Asterina gouldiae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:73. 1925. On Gouldia, Rubiaceae. Ascomata 145-240 μ, asci 63-72 x 27-39 μ, spores 7 x 16 μ.

13. Asterina derridis Henn., Hedw. 47:260. 1908. On Derris and Pongamia, Leguminosae. Ascomata 70-90 μ, asci 20-30 x 20-25 μ, spores 11-16 x 6-8 μ. Syll. Fung. 22:538; Abh. K. K. Zool.-Bot. Ges. 7:78. 1913. Theissen's key 47.

14. Asterina circularis Wint. (not Pat.), Hedw. 25:94. 1886. On leaves. Asci 36-44 x 23-30 μ, spores 15-16 x 8-9 μ. Syll. Fung. 9:388.

15. Asterina balansae Speg., Bol. Acad. Nac. Ci. Cordoba 11:559. 1889. *Asterina balansae* (Speg.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:88. 1913. *Asterina balansae* (Speg.) Sacc. and Trott., Syll. Fung. 22:537. 1913. *Seynesia balansae* Speg. Fungi Guar. I, no. 297; II, no. 130; Syll. Fung. 9:1065. 1891. On Myrtaceae; Ildefonsia, Scrophulariaceae. *Var.* macrospora Theiss. (not Speg.), Abh. K. K. Zool.-Bot. Ges. 7:88. 1913. On Leguminosae. *Var.* africana Sacc., Hedw. 37:133. 1899. Syll. Fung. 16:640; Ann. Myc. 10:24. 1912. On Rubus, Rosaceae. Ascomata 100-150 μ, asci 40 x 28 or 28-45 x 18-24 μ, spores 18-22 x 8-10 μ. Syll. Fung.

14:689; Trans. Roy. Soc. So. Afr. 8:257. 1920; Öst. Bot. Ges. 62:435. 1912; Hedw. 37:327. 1898. "Nicht zu verwechseln ist die Art mit der chinesischen Asterina balansae Karst. und Roum. = Asterina balanseana K. and R. = Asterostomella balanseana (K. and R.) Theiss., Frag. brasil. no. 152." Theissen (86) lists 25 collections which are wrongfully called *Asterina balansae*. Four forms of *Seynesia balansae* were designated and should be regarded as forms of *Asterina balansae*. They are as follows:

1) Form *Solani verbascifolii*, Syll. Fung. 9:1065. On Solanum, Solanaceae. Ascomata 100-120 μ, asci 30 x 20-25 μ, spores 10 x 8 μ.

2) Form *Maclurae*, Syll. Fung. 9:1065. On Maclura, Moraceae. Ascomata 80-100 μ, asci 30 x 25 μ, spores 15 x 7 μ.

3) Form *Solani*, Syll. Fung. 9:1065. On Solanum, Solanaceae. Ascomata 150-200 μ, asci 35-40 x 25-32 μ, spores 14-16 x 7-8 μ.

4) Form *Acanthacearum*, Syll. Fung. 9:1065. On Acanthaceae. Ascomata 60-70 μ, asci 25-30 x 20-22 μ, spores 15 x 7-8 μ.

16. Asterina gerbericola Doidge, Bothalia 2:202. 1927. On Gerbera, Compositae. Ascomata 120-130 μ, asci 20-23 x 23-30 μ, spores 13.5-16.5 x 7-8.3 μ.

17. Asterina natalensis Doidge, Trans. Roy. Soc. So. Afr. 8:248. 1920. On Mikania, Compositae. Ascomata 120-130 μ, asci 26-32 x 20-24 μ, spores 13-17 x 8-10 μ.

18. Asterina simillima Syd., Ann. Myc. 15:242. 1917. On Luffa, Curcurbitaceae. Ascomata 80-115 μ, asci 25-30 x 20-24 μ, spores 14-17 x 6-7.5 μ. Syll. Fung. 24:448.

19. Asterina ildefonsiae (Rehm) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:87. 1913. *Seynesia balansae* Speg. var. *ildefonsiae* Rehm, Hedw. 35:101. 1895. Syll. Fung. 14:689. On Claoxylon, Euphorbiaceae; Ildefonsia, Scrophulariaceae; Melothria, Cucurbitaceae. *Asterella gardoquiae* Syd., Ann. Myc. 2:169. 1904. Syll. Fung. 17:883. On Gardoquia, Labiatae. Ascomata 80-120 μ, asci 27-32 x 25-28 μ, spores 14-17 x 6.5-8 μ. Theissen's key 62.

20. Asterina veronicae (Lib.) Cooke, Grev. 5:112. 1876. *Dimerosporium veronicae* Fckl., v. Höhn., Frag. zur Myk. no. 477. *Dothidea veronicae* Lib., Pl. crypt. Arduenna. II, no. 173. 1832. *Sphaeria abjecta* Wallr., Flora crypt. part II, p. 810. 1833. *Dimerosporium abjectum* (Wallr.) Fckl., Symb. Myc. p. 89. 1869. *Dimerosporium abjectum* (Lib. par erreur) Fckl., Syll. Fung. 1:51. 1882, et auteurs divers. *Meliola abjecta* (Wallr.) Schröter, Tab. f. europei no. 2424. *Asteroma veronicae* Desm., Pl. Crypt., ed. I, fasc. XVI, 1836, no. 788, with figures and description. Ed. II, fasc. IV, 1839, no. 180. (Pour la ferme pycnide). *Asteroma veronicae* Desm. in Marchal (Crypt. belg. 76.) *Dimerosporium veronicae* Arn., Ann. École Nac. Agr. Montp. 16:174. 1918. *Asteroma veronicarum*

Rahb., Herb. Myc., ed. II, no. 739; and in Fckl., F. rhen. no. 461. *Capnodium sphaericum* Cooke, Handb. Brit. Fung., II, no. 2808. 1871. On Veronica, Scrophulariaceae. Ascomata 90-150 μ, asci 32-40 x 16-20 μ, spores 15-17 x 6.5-8 μ. Syll. Fung. 1:51; Abh. K. K. Zool.-Bot. Ges. 7:87. 1913. Theissen's key 63.

21. Asterina eupomatiae Henn., Hedw. 42:78. 1903. On Eupomatia, Anonaceae. Ascomata 60 μ, asci 25-30 x 22-28 μ, spores 12-18 x 5-6 μ. Syll. Fung. 17:882; Abh. K. K. Zool.-Bot. Ges. 7:64. 1913. *Var* dalechampiae Theiss., Abh. K. K. Zool.-Bot. Ges. 7:64 1913. On Dalechampia, Euphorbiaceae. Theissen's key 29.

22. Asterina lobata Syd., Leaflet Philipp. Bot. 5:1541. 1912; *ibid.* 6:1927. 1913. On Picrasma, Simarubaceae. Ascomata 90-125 μ, asci 25-35 x 20-25 μ, spores 13-18 x 6-7 μ. Syll. Fung. 24:472; Abh. K. K. Zool.-Bot. Ges. 7:119. 1913. Theissen's key 116.

23. Asterina negeriana Syd., Ann. Myc. 2:167. 1904. On Escallonia, Saxifragiaceae. Ascomata 100-175 μ, asci 25-35 x 18-28 μ, spores 14-18 x 7-7.5 μ. Syll. Fung. 17:877; Abh. K. K. Zool.-Bot. Ges. 7:90. 1913. Theissen's key 65.

24. Asterina raripoda Doidge, Trans. Roy. Soc. So. Afr. 8:254. 1920. On Ansellia, Orchidaceae. Ascomata 150-200 μ, asci 40-52 x 16-24 μ, spores 15-18 x 7-10 μ.

25. Asterina strychni v. Höhn., Sitz. K. Akad. Wiss. Wien 118:868. 1909; Abh. K. K. Zool.-Bot. Ges. 7:61. 1913. *Myxasterina strychni* v. Höhn., Sitz. K. Akad. Wiss. Wien 118:868. 1909. On Strychnos, Loginaceae. Asci 40-50 x 18 μ, spores 12-16 x 5-6 μ. Theissen's key 27.

26. Asterina lobulifera Syd., Philipp. Jour. Sci. 9:181. 1914. On Glochidion, Euphorbiaceae. Ascomata 100-140 μ, asci 25-30 x 20-25 μ, spores 16-18 x 7-8.5 μ. Syll. Fung. 24:454.

27. Asterina streptocarpi Doidge, Bothalia 2:203. 1927. On Streptocarpus, Gesneriaceae. Ascomata 100-150 μ, asci 20-24 x 23-24 μ, spores 16-18 x 7-8.5 μ.

28. Asterina kauaiensis Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:73. 1925. On unknown host. Ascomata 144 μ, asci 32-36 μ, spores 18 x 9 μ.

29. Asterina suttoniae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:74. 1925. On Suttonia, Myrsinaceae. Ascomata 79-384 μ, spores 18 x 9 μ.

30. Asterina piperina Syd., Ann. Myc. 15:243. 1917. *Asterina piperis* Yates, Philipp. Jour. Sci. 13:374. 1918. On Piper, Piperaceae. Ascomata 100-175 μ, asci 25-35 x 18-28 μ, spores 14-18 x 7-8.5 μ. Abh. K. K. Zool.-Bot. Ges. 7:90. 1913. Theissen's key 65.

31. Asterina portoricensis Ryan, Mycologia 16:185. 1924. On

Solanum, Solanaceae. Ascomata 72-84 μ, asci 19-21 x 19-29 μ, spores 17-19 x 7 μ.

32. Asterina myrciae Ryan, Mycologia 16:186. 1924. On Eugenia and Myrcia, Myrtaceae. Ascomata 108-116 μ, asci 12-19 x 21-24 μ, spores 19 x 7 μ.

33. Asterina theissenia Ryan, Mycologia 16:187. 1924. On Miconia, Melastomataceae. Ascomata 168-265 μ, asci 24 x 38 μ, spores 19 x 9 μ.

34. Asterina ocotearum Petr. and Cif., Ann. Myc. 30:162. 1932. On Ocotea, Lauraceae. Ascomata 80-180 μ, asci 25-38 x 20-32 μ, spores 15-20 x 7-9.5 μ.

35. Asterina dictyolomatis Henn., Hedw. 43:372. 1904. On Dictyoloma, Rutaceae. Ascomata 100-150 μ, asci 30-40 x 30 μ, spores 15-20 x 8-10 μ. Syll. Fung. 17:877; Abh. K. K. Zool.-Bot. Ges. 7:71. 1913. Theissen's key 36.

36. Asterina cassiae Syd., Philipp. Jour. Sci. 8:275. 1913. On Glochidion, Euphorbiaceae; Cnestis, Connaraceae. Ascomata 100-140 μ, asci 26-34 x 22-28 μ, spores 16-20 x 6-7 μ. Syll. Fung. 24:453; Ann. Myc. 21:103. 1923.

37. Asterina singaporensis Syd., Ann. Myc. 18:159. 1920. On Derris sinnata, Leguminosae. Ascomata 80-110 μ, asci 30-40 x 20-24 μ, spores 16-20 x 6-8 μ. Syll. Fung. 24:457.

38. Asterina pusilla Syd., Philipp. Jour. Sci. 8:488. 1913. On Premna, Verbenaceae. Ascomata 70-80 μ, asci 20-26 x 17-20 μ, spores 16-20 x 7-8 μ. Syll. Fung. 24:474.

39. Asterina decipens Syd., Leaflet Philipp. Bot. 5:1540. 1912. On Champereia, Santalaceae. Ascomata 120-170 μ, asci 15-25 x 12-18 μ, spores 16-20 x 8-9 μ. Syll. Fung. 24:470; Abh. K. K. Zool.-Bot. Ges. 7:118. 1913. Theissen's key 114.

40. Asterina tenella Cooke, Grev. 13:87. 1855. *Asterina delitescens* Ell. and Mart., Amer. Natur. 17:1381. 1883. On Persea, Lauraceae; Vaccinium, Ericaceae. Ascomata 100-140 μ, asci 25-32 μ, spores 16-20 x 8-10 μ. Syll. Fung. 9:383; Abh. K. K. Zool.-Bot. Ges. 7:76. 1913; Bernice P. Bishop Mus. Bul. 19:74. 1925. Theissen's key 45.

41. Asterina flacourtiae Petr., Ann. Myc. 29:225. 1931. On Flacourtia, Flacourtiaceae. Ascomata 150-250 μ, asci 60-80 μ, spores 17-20 μ.

42. Asterina confertissima Syd., Ann. Myc. 14:90. 1916. On Arthrostemma, Melastomataceae. Ascomata 120-160 μ, asci 35-50 x 18-26 μ, spores 17-20 x 8-10 μ.

43. **Asterina crotoniensis** (Doidge) Ryan, n. name. *Asterina crotonicola* Doidge, Bothalia 1:76. 1921. (Name preempted by *A. crotonicola* Pat.) On Croton, Euphorbiaceae. Ascomata 120-140 μ, asci 36-40 x 23-33 μ, spores 17-20 x 12-13 μ.

44. Asterina perconferta Trott., Syll. Fung. 24:466. 1926. *Asterina confertissima* Speg., Bol. Acad. Nac. Ci. Cordoba 23:572. 1919. On Passiflora, Passifloraceae. Ascomata 80-120 μ, asci 38-40 x 25-30 μ, spores 18-20 μ.

45. Asterina pipturi Syd., Ann. Myc. 14:366. 1916. On Pipturus, Urticaceae. Ascomata 80-100 μ, asci 25-35 x 22-30 μ, spores 18-20 x 7-8 μ. Syll. Fung. 24:474. Theissen's key 54.

46. Asterina perpusilla Syd., Ann. Myc. 14:366. 1916. On Alangium, Cornaceae. Ascomata 70-160 μ, asci 25-30 x 20-22 μ, spores 18-20 x 9-11 μ. Syll. Fung. 24:448.

47. Asterina ekmanii Petr. and Cif., Ann. Myc. 30:158. 1932. On Gonzalea, Rubiaceae. Ascomata 140-200 μ, asci 35-40 x 20-28 μ, spores 17-21 x 6.5-8 μ.

48. Asterina delicatula Syd. and Bal., Ann. Myc. 19:308. 1921. On Aegle, Rutaceae. Ascomata 90-120 μ, asci 30-40 x 25-30 μ, spores 18-20 x 8-10 μ.

49. Asterina mitrariae Syd., Ann. Myc. 29:86. 1931. On Mitraria, Gesneriaceae. Ascomata 120-200 μ, asci 30-37 x 25-32 μ, spores 15-21 x 10-11 μ.

50. Asterina sydowiana Ryan, Mycologia 16:184. 1924. On Chrysophyllum and Micropholis, Sapotaceae. Ascomata 112-224 μ, asci 19-31 x 36-38 μ, spores 9 x 21 μ. N. Y. Acad. Sci. 8:20. 1926.

51. Asterina grammocarpa Syd., Ann. Myc. 12:557. 1914. On Symplocus, Symplocaceae. Ascomata 90-120 μ, spores 17-22 x 8-9 μ. Syll. Fung. 24:473.

52. Asterina clermontiae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:73. 1925. On Clermontia, Campanulaceae. Ascomata 90-180 μ, asci 21-32 x 36-45 μ, spores 9-18 x 16-21 μ.

53. Asterina phaleriae Mendoza, Philipp. Jour. Sci. 49:185. 1932. On Leucosyke, Urticaceae. Ascomata 80-120 μ, asci 30-35 x 25-31 μ, spores 17-22 x 9-10 μ.

54. Asterina crebra Syd., Ann. Myc. 11:327. 1913. On Opilia, Opiliaceae. Ascomata 90-125 μ, asci 27-38 x 20-30 μ, spores 18-22 x 7-9 μ. Syll. Fung. 24:463.

55. Asterina rickii Theiss., Abh. K. K. Zool.-Bot. Ges. 7:69. 1913. *Seynesia ? paraguayensis* Theiss., Fung. Bras. no. 68, Ann. Myc. 10. 1912. On Myrtaceae. Ascomata 100-150 μ, asci 35-40 x 38-30 or 50 x 32 μ, spores 18-22 x 8-9 μ. Theissen's key 34.

56. Asterina balii Syd., Ann. Myc. 19:308. 1921. On Alangium, Cornaceae. Ascomata 100-130 μ, asci 30-40 x 25-35 μ, spores 18-22 x 8-10 μ.

57. Asterina ampullulipeda Speg., Fungi Guar. no. 127, Rev. Myc. 9.

1887. On Nectrandra, Lauraceae. Ascomata 100-120 μ, asci 40 x 30 μ, spores 19-22 x 8-9 μ. Abh. K. K. Zool.-Bot. Ges. 7:68. 1913. Syll. Fung. 9:382. 1891. Theissen's key 33.

58. Asterina liparidis Rac., Abh., K. K. Zool.-Bot. Ges. 7:91. 1913. On Liparis, Orchidaceae. Ascomata 150-220 μ, or 250 x 150 μ, asci 30-38 x 25-30 μ, spores 19-22 x 8-10 μ. Syll. Fung. 24:464. Theissen's key 67.

59. Asterina banguiensis Yates, Philipp. Jour. Sci. 13:372. 1918. On Glycosmis, Rutaceae. Ascomata 120-160 μ, asci 45-50 x 18-22 μ, spores 20-22 x 8-10 μ. Syll. Fung. 24:469.

60. Asterina delicata Doidge, Trans. Roy. Soc. So. Afr. 8:253. 1920. On Trimeria, Flacourtiaceae. Ascomata 100-130 μ, asci 26-33 x 33-40 μ, spores 20-22 x 10-12 μ. Doidge's key 9.

61. Asterina quarta Rac., Abh. K. K. Zool.-Bot. Ges. 7:77. 1913. On Syzygium, Myrtaceae. Ascomata 200-300 μ, asci 75-85 x 30-40 μ, spores 20-22 x 11-14 μ. Syll. Fung. 24:462. Theissen's key 46.

62. **Asterina triumfettae** (Arn.) Stev., n. comb. *Dimerosporium triumfettae* Arn., Ann. École Nat. Agr. Montp. 16:180, tab. 36. 1918; Bull. Soc. Myc. Fr. 36:39. 1920. On Triumfetta, Tillaceae. Ascomata 60-100 μ, asci 30-40 μ, spores 18-23 x 10-12 μ. Syll. Fung. 24:478. 1926.

63. Asterina venustula Syd., Philipp. Jour. Sci. 21:140. 1922. On Averrhoa, Oxalidaceae. Ascomata 150-175 μ, asci 32-40 x 25-30 μ, spores 20-23 x 8-9 μ.

64. Asterina scolopiae Doidge, Bothalia 1:77. 1920. On Scolopia, Flacourtiaceae. Ascomata 150-170 μ, asci 33-40 μ, spores 20-23.5 x 9-11 μ.

65. Asterina secamonicola Doidge, Bothalia 2:235. 1927. On Secamone, Asclepiadaceae. Ascomata 200-240 μ, asci 40-50 x 24-27 μ, spores 20-23 x 9-10 μ.

66. Asterina laxa Wint., Hedw. 31:102. 1892. On unknown host. Ascomata 80-120 μ, asci 43-48 x 23-30 μ, spores 22-23 x 9-10 μ. Syll. Fung. 11:256; Abh. K. K. Zool.-Bot. Ges. 7:78. 1913. Theissen's key 48.

67. Asterina miconiae Ryan, Mycologia 16:181. 1925. (Not *A. miconiae* Theiss.) *Asterina spathulata* Seav. and Char., N. Y. Acad. Sci. 8:20. 1926. On Miconia, Melastomataceae. Ascomata 168-201 μ, asci 41-48 x 9 μ, spores 19-24 x 5-7 μ.

68. Asterina silvatica Speg., Fungi Puigg. no. 359, Bol. Acad. Nac. Ci. Cordoba 11. 1889. On Trichilia, Meliaceae. Asci. 40-55 x 25-30 μ, spores 20-24 x 8-10 μ. Theissen's key 50.

69. Asterina combreti Syd., Engl. Bot. Jahrb. 45:264. 1910. On Combretum, Combretaceae. Ascomata 130-170 μ, asci 35-45 x 32-40 μ, spores 20-24 x 9-11 μ. *Var.* kutuensis (Henn.) v. Höhn. *Hyphaster kutensis* Henn., in H. Baum, Ber. der Kunene-Zambesi-Exped. p. 169.

1902. *Asterina (Dimerosporium) kutuensis* v. Höhn., Frag. zur Myk. XII, no. 599. On Combretum, Combretaceae. *Var.* brasiliensis Theiss., Abh. K. K. Zool.-Bot. Ges. 7:63. 1913. *Asterina combreti* var. *brasiliana* Speg., Ann. Mus. Nac. Buenos Aires 23:504. 1919. On Acanthaceae. Syll. Fung. 24:447. 1926; Trans. Roy. Soc. So. Afr. 8:249. 1920. Theissen's key 28.

70. Asterina spissa Syd., Ann. Myc. 9:392. 1911. *Dimerosporium spissum* Arn., Ann. École Nat. Agr. Montp. 16:178. 1918. On Jasminum, Oleaceae. Ascomata 130-170 μ, asci 38-45 x 30-35 μ, spores 20-24 x 9-12 μ. Syll. Fung. 24:464; Abh. K. K. Zool.-Bot. Ges. 7:61. 1913. Theissen's key 26.

71. Asterina sphaerasca Thüem., F. Austro-Africo 119. 1878. On Capparis, Capparidaceae. Ascomata 130-170 μ, asci 35-45 μ, spores 20-24 x 10-12 μ. Doubtful species. Syll. Fung. 1:40. 1882; Abh. K. K. Zool.-Bot. Ges. 7:115. 1913; Trans. Roy. Soc. So. Afr. 8:262. 1920.

72. Asterina tropicalis Speg., Ann. Mus. Nac. Buenos Aires 23:211. 1912. On Rheedia, Guttiferae. Ascomata 120-150 μ, asci 45-50 x 35 μ, spores 24 x 12 μ. Syll. Fung. 24:449.

73. Asterina mappiae Petr. and Cif., Ann. Myc. 28:279. 1930. On Mappia, Icacinaceae. Ascomata 80-150 μ, asci 38-45 μ, spores 20-24 x 10-12.5 μ.

74. Asterina oligocarpa Syd., Ann. Myc. 12:558. 1914. On Olax, Olacaceae. Ascomata 50-70 μ, asci 40-45 x 30-35 μ, spores 20-24 x 15-18 μ. Syll. Fung. 24:463.

75. Asterina cinnamomi Syd., Ann. Myc. 21:103. 1923. On Cinnamomum, Lauraceae. Ascomata 100-150 μ, asci 35-42 x 22-32 μ, spores 22-24 x 10-12 μ.

76. Asterina libertiae Syd., Ann. Myc. 2:167. 1904. *Asterina leveillei* Pat., Jour. Bot. 26:148. 1888. On Libertia, Iridaceae; Arundo, Gramineae. Ascomata 140-200 μ, asci 42 x 28-38 μ, spores 18-25 x 9-11 μ. Syll. Fung. 9:387; 17:880; Abh. K. K. Zool.-Bot. Ges. 7:81. 1913. Theissen's key 55.

77. Asterina coccolobae Ferd. and Winge, Botan. Tidsskr. 29:10, tab. 1, fig. 2. 1908. On Coccoloba, Polygonaceae. Ascomata 175-350 μ, asci 38-50 x 25-37 μ, spores 20-25 x 8-11 μ. Syll. Fung. 22:543.

78. Asterina breyniae Syd., Ann. Myc. 15:242. 1917. *Asterina breyniae* Yates, Philipp. Jour. Sci. 12:370. 1917. *Asterina breyniaecola* Trott., Syll. Fung. 24:452. On Breynia, Euphorbiaceae. Ascomata 150-250 μ, asci 45-55 x 30-38 μ, spores 21-25 x 10-11 μ. Syll. Fung. 24:452; Ann. Myc. 20:72. 1922.

79. Asterina trachycarpa Syd., Leaflet Philipp. Bot. 5:1542. 1912. On Derris, Leguminosae. Ascomata 125-180 μ, asci 30-40 x 22-26 μ, spores

20-25 x 10-11 μ. Syll. Fung. 24:456; Abh. K. K. Zool.-Bot. Ges. 7:119. 1913. Theissen's key 118.

80. Asterina crotonis Syd., Ann. Myc. 14:91. 1916. On Croton, Euphorbiaceae. Ascomata 150-200 μ, asci 45-50 x 30-40 μ, spores 20-25 x 9-12 μ. Syll. Fung. 24:453.

81. Asterina ditissima Syd., Ann. Myc. 15:243. 1917. On Eugenia, Myrtaceae. Ascomata 200-320 μ, asci 50-64 x 20-28 μ, spores 22-25 x 10-12 μ. Syll. Fung. 24:462.

82. Asterina hendersoni Doidge, Trans. Roy. Soc. So. Afr. 8:255. 1920. On Ilex, Aquifoliaceae. Ascomata 150-200 μ, asci 45-50 x 26-33 μ, spores 23-25 μ. Doidge's key 15.

83. Asterina rhamnicola Doidge, Trans. Roy. Soc. So. Afr. 8:255. 1920. On Rhamnus, Rhamnaceae. Ascomata 225-280 μ, asci 45-50 x 23-33 μ, spores 23-25 x 9-12 μ. Doidge's key 14.

84. Asterina pulla Lév., Ann. Sci. Nat. 3:60. 1845. On Melastomataceae. Ascomata 180-240 μ, asci 50-75 x 26-30 μ, spores 23-26 x 8-10 μ. Syll. Fung. 1:51; Abh. K. K. Zool.-Bot. Ges. 7:88. 1913. Theissen's key 52.

85. Asterina punctiformis Lév., Ann. Sci. Nat. 4:267. 1846. On Conceveiba, Euphorbiaceae; Gesneria, Gesneriaceae. Ascomata 120-150 μ, asci 38-43 x 30-35 μ, spores 22-26 x 10-12 μ. *Var.* fimbriata. *Asterina fimbriata* Kalch. and Cke., Grev. 9:138. 1880. Syll. Fung. 1:41. *Sclerochiton harveyanum* Kalch. no. 1290, auf Hypoestes Wood 608, Sudafrika, herb. Kew. On Sclerochiton, Acanthaceae. Mycologia 16:186; Abh. K. K. Zool.-Bot. Ges. 7:66. 1913; Trans. Roy. Soc. So. Afr. 8:251. 1920. Theissen's key 31.

86. Asterina indica Syd., Ann. Myc. 9:390. 1911. On Symplocus, Symplocaceae. Ascomata 150-200 μ, asci 43-62 x 30-40 μ, spores 22-26 x 10-13 μ. Syll. Fung. 24:473; Abh. K. K. Zool.-Bot. Ges. 7:86. 1913. Theissen's key 61.

87. Asterina hoveaefolia Cke. and Mass., Grev. 22:36. 1893. On Hovea, Leguminosae. Ascomata 200-250 μ, asci 50 x 36-45 μ, or 62-72 x 30-35 μ, spores 23-26 x 10-12 μ. Syll. Fung. 11:255; Abh. K. K. Zool.-Bot. Ges. 7:80. 1913. Theissen's key 51.

88. Asterina ferruginosa Doidge, Trans. Roy. Soc. So. Afr. 8:254. 1920. On Cussonia, Araliaceae. Ascomata 160-190 μ, asci 33-37 μ, spores 23-26 x 11-12.5 μ. Doidge's key 13.

89. Asterina densa Syd., Ann. Myc. 12:557. 1914. On Pittosporum, Pittosporaceae. Ascomata 170 μ, asci 40-55 x 35-40 μ, spores 24-26 x 9-10 μ. Syll. Fung. 24:467.

90. Asterina sphaeropoda Syd., Ann. Myc. 15:242. 1917. On Ostodes, Euphorbiaceae. Ascomata 160-200 μ, asci 50-60 x 30-35 μ, spores 24-26 x 10-13 μ. Syll. Fung. 24:454.

91. Asterina assimilis Syd., Philipp. Jour. Sci. 21:140. 1922. On Eugenia, Myrtaceae. Ascomata 200-300 μ, asci 60-80 x 30-40 μ, spores 24-26 x 13-15 μ.

92. Asterina melastomacearum Ryan, Mycologia 16:186. 1924. On Miconia, Melastomataceae. Ascomata 168-268 μ, asci 43 x 53-62 μ, spores 14-26 μ.

93. Asterina uribei Toro, Jour. Dept. Agr. Puerto Rico 13:231. 1930. On Miconia, Melastomataceae. Ascomata 160-200 μ, asci 65-68 x 24-27 μ, spores 24-27 x 10-13 μ.

94. Asterina excoecariae Doidge, Trans. Roy. Soc. So. Afr. 8:258. 1920. On Excoecaria, Euphorbiaceae. Ascomata 100-120 μ, asci 35-40 μ, spores 23-27 x 12-13.5 μ. Doidge's key 20.

95. Asterina trichiliae Doidge, Trans. Roy. Soc. So. Afr. 8:253. 1920. On Trichilia, Meliaceae. Ascomata 190-220 μ, asci 40-46 x 43-50 μ, spores 25-27 x 12-13 μ.

96. Asterina nothopegiae Ryan, Mem. Dept. Agr. India 15:104. 1927. On Nothopegia, Anacardiaceae. Ascomata 132-181 μ, asci 20-33 x 25-42 μ, spores 8-10 x 20-28 μ.

97. Asterina kernii Toro, Mycologia 17:133. 1925. On Brunellia, Brunelliaceae. Ascomata 132-208 μ, asci 42-56 x 35-46 μ, spores 21-28 x 14 μ. N. Y. Acad. Sci. 8:19. 1926.

98. Asterina peglerae Doidge, Trans. Roy. Soc. So. Afr. 8:250. 1920. On Rhus (?), Anacardiaceae. Ascomata 100-160 μ, asci 45-50 x 43-45 μ, spores 23-28 x 15-16.5 μ. Doidge's key 6.

99. Asterina correicola Cke. and Mass., Grev. 16:5. 1887. On Correa, Rutaceae; Miconia, Melastomataceae. Ascomata 200-250 or 300 x 220 μ, asci 42-65 x 32-42 μ, spores 24-28 x 10-10.5 μ. "Die Art weicht von *A. aucubae* durch derbere Myzelhyphen und kleinere Sporen ab; *A. guaranitica* hat bedeutend starkere Sporen und etwas schwachere Hyphopodien." Syll. Fung. 9:383; Abh. K. K. Zool.-Bot. Ges. 7:92. 1913. Theissen's key 68.

100. Asterina opposita Syd., Leaflet Philipp. Bot. 6:1926. 1913. On Meliaceae. Ascomata 120-175 μ, asci 42-52 x 30-40 μ, spores 24-28 x 12-14 μ. Syll. Fung. 24:461.

101. Asterina gibbosa Gaill., Bul. Soc. Myc. Fr. 13:180. 1897. On leaves of unknown host; on Randia and Basanacantha, Rubiaceae. Ascomata 50-90 μ, asci 27-32 x 18-24 μ, spores 16-20 x 8-9 μ. Syll. Fung. 14:697; Abh. K. K. Zool.-Bot. Ges. 7:57. 1913. *Var.* megathyria Doidge, Trans. Roy. Soc. So. Afr. 8:248. 1920. On Tricalysia, Randia, Pavetta, Alberta ?, Plectronia, Rubiaceae. Ascomata 140-200 μ, asci 33-34 x 27-33 μ, spores 16-20 x 8-9 μ. Theissen's key 20.

102. Asterina opaca Syd., Ann. Myc. 10:38 1912. On Chrysophyllum,

Sapotaceae. Ascomata 150-250 μ, asci 50-70 x 35-46 μ, spores 26-28 x 13-14 μ. Very near *A. sphaerotheca*, dubious species. Syll. Fung. 24:470; Abh. K. K. Zool.-Bot. Ges. 7:113. 1913; Trans. Roy. Soc. So. Afr. 8:255. 1920. Theissen's key 98.

103. Asterina henningsii (Henn.) Theiss., Frag. brasil. no. 78, Ann. Myc. 10:6. 1912. *Asterina solanicola* Henn. (not B. and C.), Hedw. 41:108. 1902. *Dimerosporium henningsii* Arn., Ann. École Nat. Agr. Montp. 16:176. 1918. On Solanum, Solanaceae. Ascomata 80-120 μ, asci 48-65 x 36-56 μ, spores 25-29 x 12-13 μ. Syll. Fung. 17:879; Abh. K. K. Zool.-Bot. Ges. 7:65. 1913. Theissen's key 30.

104. Asterina plectroniaecola Mendoza, Philipp. Jour. Sci. 49:187. 1932. On Plectronia, Rubiaceae. Ascomata 80-160 μ, asci 35-41 x 28-35 μ, spores 26-29 x 10-13 μ.

105. Asterina echinospora v. Höhn., Sitz. K. Akad. Wiss. Wien 118:440. On Casjera, Opiliaceae. Ascomata 150-240 μ, asci 44-48 x 36 μ, spores 26-29 x 12-14 μ. Syll. Fung. 22:539; Abh. K. K. Zool.-Bot. Ges. 7:72. 1913. Theissen's key 38.

106. Asterina elmeri Syd., Leaflet Philipp. Bot. 4:1156. 1911. On Champereia, Santalaceae. Ascomata 120-180 μ, asci 40-50 x 30-45 μ, spores 25-30 x 10-14 μ. Syll. Fung. 24:479; Abh. K. K. Zool.-Bot. Ges. 7:58. 1913; Ann. Myc. 21:103. 1923. Theissen's key 22.

107. Asterina dispar Speg., Fungi Puig., Bol. Acad. Nac. Ci. Cordoba 11:562. 1889. On Styrax, Styraceae. Ascomata 180-200 μ, asci 45-50 μ, spores 25-30 x 12-14 μ. Syll. Fung. 9:384. 1891. Theissen's key 42.

108. Asterina melanomera Syd., Ann. Myc. 15:241. 1917. On Dasymaschalon, Anonaceae. Ascomata 180-240 μ, asci 35-50 x 30-40 μ, spores 25-30 x 12-14 μ. Syll. Fung. 24:443; Ann. Myc. 21:103. 1923.

109. Asterina couepiae Henn., Hedw. 34:104. 1895. *Seynesia heteropteridis* Theiss., Broteria 8:10. 1910. *Asterolibertia couepiae* Arn., Ann. École Nat. Agr. Montp. 16:166. 1918. On Couepia, Rosaceae. Ascomata 200-250 μ, asci 40-50 μ, spores 26-30 x 9-13 μ. Syll. Fung. 22:523; Abh. K. K. Zool.-Bot. Ges. 7:56. 1913. Theissen's key 18.

110. Asterina elaeocarpi Syd., Leaflet Philipp. Bot. 4:1156. 1911. On Elaeocarpus, Elaeocarpaceae; Herpetica, Cassia, Leguminosae. Ascomata 100-180 μ, asci 42-60 x 28-35 μ, spores 26-30 x 10-13 μ. Syll. Fung. 24:452; Abh. K. K. Zool.-Bot. Ges. 7:73. 1913; N. Y. Acad. Sci. 8:9. 1926. Theissen's key 40.

111. Asterina belluciae Henn., Hedw. 43:374. 1904. *Asterina racemosae* Ryan, Mycologia 16:182. 1924. *Asterina miconicola* Ryan, Mycologia 16:182. 1924. On Miconia and Bellucia, Melastomataceae. Ascomata 100-135 μ, asci 46 x 54 μ, spores 26-30 x 11-13 μ. Jour. Dept. Agr. Puerto Rico 13:229. 1929; Abh. K. K. Zool.-Bot. Ges. 7:72. 1913; Ann. Myc. 27:54. 1929. Theissen's key 39.

112. Asterina megalocarpa Berk. and Curtiss, U. S. North Pacific Explor. Exped., Amer. Jour. Sci. 11:129. 1851. Syll. Fung. 1:42; (Sub megalospora) Herb. of the U. S. North Pacific Explor. Exped. no. 168. On leaves. Ascomata 250 μ, asci 55-68 x 40-52 μ, spores 26-30 x 11-13 μ. Abh. K. K. Zool.-Bot. Ges. 7:75. 1913. Thiessen's key 43.

113. Asterina holarrhenae Ryan, Mem. Dept. Agr. India 15:103. 1927. On Holarrhena, Apocynaceae. Ascomata 115-214 μ, asci 34-44 μ, spores 12 x 26-30 μ.

114. Asterina diaphorella Syd., Ann. Myc. 17:35. 1919. On Sideroxylon, Sapotaceae. Spores 26-30 x 11-14 μ. Differs from *A. laxiuscula* in its hemispheric, 6-7 μ hyphopodia. Syll. Fung. 24:471.

115. Asterina saginata Syd., Ann. Myc. 15:241. 1917. On Polyalthia, Anonaceae. Ascomata 200-300 μ, asci 45-50 μ, spores 27-30 x 12-14 μ. Syll. Fung. 24:443.

116. Asterina xylosmae Mendoza, Philipp. Jour. Sci. 49:185. 1932. On Plectronia, Rubiaceae. Ascomata 200-361 μ, asci 47-63 x 41-57 μ, spores 16-18 x 10-11 μ.

117. Asterina plectroniae Mendoza, Philipp. Jour. Sci. 49:186. 1932. On Xylosma, Flacourtiaceae. Ascomata 250-291 μ, asci 60-63 x 44-60 μ, spores 27-30 x 12-16 μ.

118. Asterina drypetis Ryan, Mycologia 16:180. 1924. On Drypetes, Euphorbiaceae. Ascomata 127-426 μ, asci 29-36 x 38-43 μ, spores 10-12 x 28-31 μ. Near *A. dispar*.

119. Asterina fawcetti Ryan, Mycologia 16:180. 1924. On Eugenia, Myrtaceae. Ascomata 190-264 μ, asci 24-48 x 51-65 μ, spores 9-12 x 29-31 μ.

120. Asterina hippocrateae Ryan, Mycologia 16:181. 1924. On Hippocratea, Hippocrataceae. Ascomata 96-104 μ, asci 36-45 x 26-38 μ, spores 31 x 14 μ.

121. Asterina porriginosa Syd., Leaflet Philipp. Bot. 5:1541. 1912. On Ilex, Aquifoliaceae. Ascomata 160-220 μ, asci 40-54 x 30-45 μ, spores 22-32 x 11-16 μ. Syll. Fung. 24:444; Abh. K. K. Zool.-Bot. Ges. 7:119. 1913. Theissen's key 117.

122. Asterina ciferriana Petr., Ann. Myc. 30:155. 1932. On Caesalpiniae, Leguminosae. Ascomata 100-250 μ, asci 50-68 x 30-45 μ, spores 24-32 x 12-16 μ.

123. Asterina sphaerotheca Karst. and Roum., Rev. Myc. 12:76. 1890. On Vitex, Verbenaceae; Mallea, Melia, Meliaceae. Ascomata 80-100 μ, asci 40-50 or 40 x 60 μ, spores 24-32 x 13-16 μ. *Var.* prodige Theiss., Abh. K. K. Zool. Bot. Ges. 7:59. 1913. Syll. Fung. 24:475. 1926. Ascomata 110-180 or 250 x 140 μ, asci 50-65 x 40-48 μ, spores 30-36 x 13-16 μ. Syll. Fung. 9:383. Theissen's key 24.

124. Asterina juruana (Henn.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:84. 1913. *Seynesia juruana* Henn., Hedw. 43:376. 1904. Syll. Fung. 17:865. 1905. *Maublancia juruana* Arn., Ann. École Nat. Agr. Montp. 16:159. 1918. Syll. Fung. 17:865. 1905. On Casearia, Flacourtiaceae. Ascomata 500-650 μ, asci 140-190 x 25-30 μ, spores 28-32 x 9-12 μ. Estacion Agronomica de Moca, series B, no. 14, p. 70. Theissen's key 59.

125. Asterina platasca B. and C., Cuban Fungi no. 732, Jour. Linn. Soc. 10:373. 1869. On Passiflora, Passifloraceae. Ascomata 160-240 μ, asci 52-68 x 40-55 μ, spores 28-32 x 12-16 μ. Near *A. azarae* and possibly *A. arnaudia*. Syll. Fung. 1:40; Abh. K. K. Zool.-Bot. Ges. 7:85. 1913. Theissen's key 60.

126. Asterina crotonicola Pat. (not Doidge), Bull. Soc. Myc. Fr. 8:127. 1892. On Croton, Euphorbiaceae. Ascomata 130-160 μ, spores 32 x 15 μ. Syll. Fung. 9:256; Abh. K. K. Zool.-Bot. Ges. 7:110. 1913; Ann. Myc. 25-54. 1927. "Die Art wäre auf Identität mit *Asterina dispar* nachzuprüfen." Theissen's key 89.

127. Asterina jahnii Syd., Ann. Myc. 28:137. 1930. On Anonaceae. Ascomata 150-200 μ, asci 42-50 x 38-45 μ, spores 24-33 x 12-16 μ.

128. Asterina psidii Ryan, Mycologia 16:185. 1924. On Psidium, Myrtaceae. Ascomata 228 or 190 x 302 μ, asci 33-38 x 60-65 μ, spores 26-33 x 12-17 μ.

129. Asterina paraguayensis Speg., Fungi Guar. I, Anal. Soc. Ci. Argentina, 22:300. 1886; *ibid.* 26:51. 1888. *Seynesia paraguayensis* Speg., Syll. Fung. 9:1066. 1891. On Sapotaceae; Bignoniaceae; Lauraceae. Ascomata 160-200 μ, asci 40-45 or 50-70 x 35-40 μ, spores 28-33 x 12-15 μ. Abh. K. K. Zool.-Bot. Ges. 7:58. 1913; Öst. Bot. Zeitschr. 62:435. 1912. Theissen's key 23.

130. Asterina camelliae Syd. and Butl., Ann. Myc. 9:389. 1911. On Camellia, Theaceae; Miconia, Melastomataceae. Ascomata 200-300 μ, asci 70-100 x 25-35 μ, spores 30-33 x 16 μ. Syll. Fung. 24:474. 1926; Mycologia 16:183. 1925. Abh. K. K. Zool.-Bot. Ges. 7:83. 1913. Theissen's key 58.

131. Asterina arnaudia Ryan, Mycologia 16:184. 1925. On Passiflora, Passifloraceae. Ascomata 132-156 μ, asci 38-41 x 43-60 μ, spores 26-34 x 9-12 μ.

132. Asterina chrysophylli Henn., Hedw. 48:12. 1908. *Asterina valida* (Speg.) Sacc. and Trott., Syll. Fung. 22:544. 1913; *ibid.* 24:471. 1926; Fung. Paul. Rev. Mus. La Plata tab. 15, p. 29. 1896. *Asterella valida* Speg., Abh. K. K. Zool.-Bot. Ges. 7:67. 1913. On Chrysophyllum, Sapotaceae; Miconia, Melastomataceae. Ascomata 200-250 μ, asci 50-60 x 45-50 μ, spores 28-34 x 12-15 μ. Ann. Myc. 16:183. 1918; 28:378. 1930. Theissen's key 32.

133. Asterina lepiniana Mont., Abh. K. K. Zool.-Bot. Ges. 7:73. 1913.

Asterina pelliculosa Berk., Syll. Fung. 1:46. 1882; Ant. Voy. Crypt. p. 137. On Pavetta, Rubiaceae; Jasmini, Oleaceae. Ascomata 240-300 μ, asci 70-80 x 50-70 μ, spores 28-34 x 12-16 μ. Theissen's key 41.

134. Asterina brysonimae (Henn.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:71. 1913. *Lembosia brysonimae* Henn., Hedw. 43:265. 1904. Syll. Fung. 17:898. *Asterina brysonimicola* Henn., Hedw. 44:65. 1905. Syll. Fung. 17:875. On Brysonima, Malpighiaceae. Ascomata 200-300 or 300-500 x 200-250 μ, asci 60-90 x 54-60 μ, spores 28-34 x 12-17 μ. Theissen's key 37.

135. Asterina versipoda Ryan, Mycologia 16:188. 1924. On unknown host. Ascomata 224 μ, asci 36-50 μ, spores 29-34 x 12 μ.

136. Asterina uncinata Doidge, Trans. Roy. Soc. So. Afr. 8:252. 1920. On Rhamnus, Rhamnaceae. Ascomata 200-280 μ, asci 42-50 x 40-45 μ, spores 30-34 x 16-20 μ.

137. Asterina meliosmaticola Petr. and Cif., Ann. Myc. 30:160. 1932. On Meliosma, Sabiaceae. Ascomata 100-200 μ, asci 50-60 x 40-50 μ, spores 27-35 x 13-16 μ.

138. Asterina verae-crucis Theiss., Ann. Myc. 12:300. 1914. On Litsaea, Lauraceae. Asci 66 x 54 μ, spores 30-35 x 15-17 μ. Syll. Fung. 24:456.

139. Asterina nodulifera Syd., Philipp. Jour. Sci. 11:180. 1914. On Angelsesia, Rosaceae. Ascomata 250-340 μ, asci 40-55 x 38-44 μ, spores 30-35 μ. Syll. Fung. 24:467.

140. Asterina bakeri Syd., Ann. Myc. 14:367. 1916. On Daemonorops, Palmae. Ascomata 300-350 μ, asci 50-70 x 30-40 μ, spores 26-36 x 12-14 μ. Syll. Fung. 24:465.

141. Asterina aucubae Henn., Engl. Bot. Jahrb. 31:379. 1902. Syll. Fung. 17:878. *Asterina aucubae* (Sacc.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:83. 1913. *Lembosia catevararia* Mont. var *aucubae* Sacc., Hedw. 37:208. 1898. Syll. Fung. 16:663. On Aucubae, Cornaceae. Ascomata 160-200 μ, asci 54-62 x 34-45 μ, spores 26-36 x 12-14 μ. Ann. Myc. 10:187. 1912. Theissen's key 57.

142. Asterina genipae Ryan, Mycologia 16:180. 1924. On Genipa, Rubiaceae. Ascomata 192 μ, asci 41-58 μ, spores 29-36 x 14-16 μ.

143. Asterina tetrazygiae Ryan, Mycologia 16:183. 1924. On Tetrazygia, Melastomataceae. Ascomata 168-280 μ, asci 48-50 x 60-65 μ, spores 31-36 x 17-19 μ.

144. Asterina fallaciosa Syd., Ann. Myc. 15:240. 1917. On Canarium, Burseraceae. Ascomata 220-320 μ, asci 50-60 x 40-50 μ, spores 32-36 x 17-19 μ. Syll. Fung. 24:445.

145. Asterina cylindrophora Syd., Ann. Myc. 15:240. 1917. On Scolopia, Flacourtiaceae. Ascomata 160-250 μ, spores 34-36 x 18-20 μ. Syll. Fung. 24:454.

146. Asterina carbonacea Cke., Grev. 8:96. 1880. On leaves. Ascomata 140-170 μ, asci 55-70 x 40-50 μ, spores 35-36 x 14-18 μ. Syll. Fung. 1:42. 1882.

Var. acanthopoda Theiss. *Asterina acanthopoda* Speg., Fungi Guar. 2:47, no. 128; Syll. Fung. 9:385. 1891; Abh. K. K. Zool.-Bot. Ges. 9:70. 1913. *Asterina aesculi* Desm., Syll Fung. 1:47. 1882. *Asterina sapotacearum* Speg., Anal. Mus. Nac. Buenos Aires 23:82. 1912; Syll. Fung. 9:385. 1891. On Chrysophyllum, Sapotaceae; Aesculus, Hippocastanaceae.

Var. huallagensis Theiss., Abh. K. K. Zoo.-Bot. Ges. 7:69. 1913. *Lembosia huallagensis* Henn., Hedw. 43:383. 1904; Syll. Fung. 17:898; Abh. K. K. Zool.-Bot. Ges. 7:69. 1913. On Sapindaceae. *Asterina acanthopoda* Speg. var. *hyptides* Rehm, Hedw. 40:160. 1901. On Hyptis, Labiatae. Syll. Fung. 16:1141.

Var. anacardii Ryan, Mycologia 16:186. 1924. On Anacardium, Anacardiaceae. Theissen's key 35.

147. Asterina memecyloniae Ryan, Mem. Dept. Agr. India 15:105. 1927. On Memecylon, Melastomataceae. Ascomata 132 μ, asci 64 x 36 μ, spores 36 x 14 μ.

148. Asterina dipholidis Petr. and Cif., Ann. Myc. 28:378. 1930. On Dipholis, Sapotaceae. Ascomata 200-300 μ, asci 45-60 x 40-45 μ, spores 28-36 μ long.

149. Asterina subinermis Syd., Leaflet Philipp. Bot. 6:1927. 1913. On leaves. Ascomata 175-220 μ, asci 42-55 x 35-45 μ, spores 32-37 x 14-16 μ. Syll. Fung. 24:475.

150. Asterina guarantica Speg., Anal. Soc. Ci. Argentina 22. 1886; *ibid.* 26:52. 1888; Syll. Fung. 9:1064. 1891. (sub Seynesia) Anal. Mus. Nac. Hist. Nat. Buenos Aires 23:80. 1912. *Seynesia guarantica* Speg., Fungi Guar., Pug. I, no. 299, Anal. Soc. Ci. Argentina 22. 1886. *Asterina schmideliae* Gaill., Bull. Soc. Myc. Fr. 13:181. 1897. Syll. Fung. 14:694. *Seynesia submegas* Henn., Hedw. 43:375. 1904; Syll. Fung. 17:867. *Asterina paraphysata* Starb. (not Winter), Asco. I, Regn. Exped. III, p. 12, Ark. f. Bot. II, no. 5, 1904; Syll. Fung. 17:878. 1905. On Trichilia, Guarea, Meliaceae; Schmidelia, Sapindaceae; Styrax, Styraceae. Ascomata 150-250 or 230 x 180 μ, asci 65-68 x 50-55 μ, spores 30-38 μ. Abh. K. K. Zool.-Bot. Ges. 7:82. 1913; Öst. Bot. Zeitschr. 62:435. 1912; Ann. Myc. 25:60. 1927; 27:51. 1929. Theissen's key 56. "Ich vermute, dass *A. guarantica* Speg. im Theissen's schen Sinne eine Sammelart darstellt, so dass seine Diagnose nicht lediglich nach der auf. Trichilia lebenden typischen Form entworfen wurde. Hierauf dürften wohl die erwühnten Abweichungen zurückzuführen zu sein."

151. Asterina guianensis Ryan, Mycologia 16:182. 1924. On Miconia and Tamonea, Melastomataceae. Ascomata 96-144 μ, asci 48 x 28 μ, spores 24-38 x 12-14 μ.

152. Asterina drypeticola Petr. and Cif., Ann. Myc. 30-157. 1932. On Drypetis, Euphorbiaceae. Ascomata 200-400 μ, asci 55-65 x 45-50 μ, spores 30-38 x 14-18 μ.

153. Asterina anisopterae Syd., Ann. Myc. 12:556. 1914. On Anisoptera, Dipterocarpaceae. Ascomata 250-500 x 200-300 μ or 200-300 μ, asci 60-70 x 45-55 μ, spores 32-38 x 18-22 μ. Syll. Fung. 24:450.

154. Asterina polythryria Doidge, Trans. Roy. Soc. So. Afr. 8:258. 1920. On Osyridicarpus, Santalaceae. Ascomata 150-170 μ, or 190-200 x 140 μ, asci 26-40 x 20-24 μ, spores 16-20 x 6-7 μ. Doidge's key 22.

155. Asterina shoreana Sacc., Notae Myc. 23:61 (Acad. Ven.-Trent. 1917). On Parashorea, Dipterocarpaceae. Ascomata 240 μ, asci 55-60 μ, spores 30-40 x 16 μ. Syll. Fung. 24:451. 1926.

156. Asterina laxiuscula Syd., Philipp. Jour. Sci. 8:256. 1913. On Sideroxylon, Sapotaceae. Ascomata 150-220 μ, asci 55-75 x 40-50 μ, spores 32-40 x 15-18 μ. Syll. Fung. 24:471.

157. Asterina robusta Doidge. Trans. Roy. Soc. So. Afr. 8:256. 1920. On Pittosporum, Pittosporaceae. Ascomata 300-400 μ, asci 65-75 x 45-55 μ, spores 35-40 x 18-20 μ. Doidge's key 17.

158. Asterina spectabilis Syd. Philipp. Jour. Sci. 21:140. 1922. On Flacourtia, Flacourtiaceae. Ascomata 200-300 μ, asci 50-80 x 40-50 μ, spores, 35-42 x 18-20 μ.

159. Asterina platypoda Syd., Ann. Myc. 15:241. 1917. On Urophyllum, Rubiaceae. Ascomata 250-350 μ, asci 70-85 x 55-70 μ, spores 37-42 x 18-21 μ. Syll. Fung. 24:468.

160. Asterina inaequalis Mont., Ann. Sci. Nat., ser. 4, 5:340. 1856; Syll. Fung. 1:41. *Asterina licaniae* Cke., Grev. 12:85. 1883; Syll. Fung. 9:380. On Licania, Rosaceae; Hirtella, Melastomataceae; Melpighiaceae. Ascomata 250-300 μ, spores 36-40 x 20-26 μ. *Var. nodulosa* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:55. 1913. *Asterina nodulosa* Speg., Bol. Acad. Nac. Ci. Cordoba 11:563. 1889; Syll. Fung. 9:385. On Guatteria, Anonaceae. *Asterina obtusispora* Speg., Fungi Puigg. no. 354, Bol. Acad. Nac. Ci. Cordoba 11:564. 1889. Syll. Fung. 9:388. On Tabebuia, Bignoniaceae. Mycologia 16:180. 1924; Ann. Myc. 27:52. 1929. Theissen's key 17.

161. Asterina schroeteri (Rehm) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:54. 1913. *Seynesia schroeteri* Rehm, Hedw. 37:326, fig. 14. 1898; Syll. Fung. 16:639. On Chrysobalanus, Rosaceae. Ascomata 220-300 μ, asci 60-70 x 42-46 μ, spores 38-42 x 11-13 μ. *Var.* licaniae Theiss., Abh. K. K. Zool.-Bot. Ges. 7:54. 1913. *Seynesia licaniae* Rehm (not *Asterina licaniae* Cke.), Ann. Myc. 7:538. 1909. On Licania, Rosaceae. Öst. Bot. Zeitschr. 62:435. 1912; Ann. Myc. 28:380. 1930. Theissen's key 16.

162. Asterina pluriporus Ryan, Mem. Dept. Agr. India 15:104. 1917. On Shorea, Dipterocarpaceae. Ascomata 264-848 μ, asci 80-84 x 84-104 μ, spores 24 x 40-42 μ.

163. Asterina camariensis Syd., Ann. Myc. 12:556. 1914. On Parashorea, Dipterocarpaceae. Ascomata 350-450 μ, asci 68-80 x 40-60 μ, spores 38-43 x 20-26 μ. Syll. Fung. 24:451.

164. Asterina neolitseae Yates, Philipp. Jour. Sci. 13:374. 1918. On Neolitsea, Lauraceae. Ascomata 150-170 μ, asci 60 x 25-30 μ, spores 44-46 x 14-15 μ. Syll. Fung. 24:465.

165. Asterina stricta Wint., Hedw. 32:103. 1892; Syll. Fung. 11:256. *Asterina hemispherica* Gaill., Bull. Soc. Myc. Fr. 13:179. 1897; Syll. Fung. 14:697. Host unknown. Ascomata 200-300 μ, asci 70-75 x 65-70 μ, spores 42-48 x 24-20 μ. Abh. K. K. Zool.-Bot. Ges. 7:60. 1913. Theissen's key 25.

166. Asterina phyllostegiae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:73. 1925. On Phyllostegia, Labiatae. Ascomata 48-99 μ, asci 10-12 x 21-32 μ.

167. Asterina crustacea (Ell. and Ev.) Sacc. and Trott., Syll. Fung. 22:539. 1913. *Asterella crustacea* Ell. and Ev., in Millspaugh, Publ. Field Columb. Mus. Bot. II, no. 1, p. 15, tab. 51. 1900. On Psidium, Myrtaceae. Ascomata 500 μ, asci 70-80 x 15-20 μ.

168. Asterina reticulata (Kalch. and Cke.) Doidge, Trans. Roy. Soc. So. Afr. 8:252. 1920. *Asterostomella reticulata* v. Höhn., Frag. zur. Myk. no. 493. *Asterina reticulata* Kalch. and Cke., Grev. 9:33. 1880; Syll. Fung. 1:40. 1882. On Celastrus, Elaeodendron, Pleurostylia, Putterlichia, Celastraceae; Olinia, Oliniaceae. Ascomata 220-240 μ, asci 40-43 x 23.5-26 μ, spores 20-23.5 x 8-9 μ, hyphopodia alternate, 1-celled, lobed.

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169. **Asterina poliotheae** (Syd.) Stev., n. comb. *Anariste poliotheae* Syd., Ann. Myc. 25:76. 1927. On Phoebe, Lauraceae. Ascomata 60-100 μ, asci 33-40 x 22-25 μ, spores 7-10 x 6-7.5 μ.

170. Asterina violae Henn., Hedw. 41:63. 1902; Syll. Fung. 17:876. On Viola, Violaceae. Ascomata 70:100 μ, asci 25-30 x 20-25 μ, spores 12-14 x 5.5-6 μ. "Die Art ist nahre verwandt mit *A. aspidii* durch Hyphen, Sporen und Membran-Struktur abweichend." Abh. K. K. Zool.-Bot. Ges. 7:100. 1913. Theissen's key 77.

171. Asterina radians Ellis, Jour. Myc. 8:276. 1893. On Capparis, Capparidaceae. Ascomata 200 μ, asci 35 x 20 μ, spores 12-15 x 5-5.5 μ. Doubtful species. Syll. Fung. 11:255. Theissen's key 103.

172. Asterina lactucina Syd., Ann. Myc. 29:232. 1931. On Lactuca, Compositae. Ascomata 80-120 μ, asci 20-28 μ, spores 12-16 x 6-8 μ.

173. Asterina advenula Syd., Ann. Myc. 25:46. 1927. On Rondeletia, Rubiaceae. Ascomata 70-130 μ, asci 25-33 μ, spores 13-17 x 7-9.5 μ.

174. Asterina pavoniae Werd., Rep. Spec. Nov. regin veg. 19:49. 1923. On Pavonia, Malvaceae. Ascomata 100 μ, asci 35-42 x 25-40 μ, spores 7.5-9 x 14-16 μ.

175. Asterina leptalea Syd., Ann. Myc. 29:233. 1913. On Helicteris, Sterculiaceae. Ascomata 90-150 μ, asci 25-33 μ, spores 13-17 x 7-9.5 μ. "Die dazu zugehörige Asterostomella-Nebenfruchtform hat etwas kleinere, meist nur ca. 45-100 μ grosse, sonst ganz überinstimmend gebaute Gehause, in welchen sehr breit eiformige, ellipsoidische oder fast kulige durchscheinend schwarz-braune einzellige, 12-16 x 11-14 μ, grosse Konidien gebildet werden, die keine hellere Gurtelzone zeigen."

176. Asterina van der Bijli Werd., Rep. Spec. Nov. regni veg. 19:49. 1923. On Heteropyxis, Bombascaceae. Ascomata 160 μ, asci 30-35 x 26-28 μ, spores 15-17.5 x 5-8 μ. So. Afr. Jour. Sci. 25:182. 1928.

177. Asterina phenacis Syd., Ann. Myc. 25:66. 1927. On Phenax, Urticaceae. Ascomata 60-125 μ, asci 35-40 x 25-30 μ, spores 15-18 x 7.5-10 μ.

178. Asterina diplopoda Syd., Ann. Myc. 25:56. 1927; 28:136. 1930. On Solanum, Solanaceae. Ascomata 70-125 μ, asci 33-40 x 25-32 μ, spores 16-18 x 7-8.5 μ. On *Solanum callicarpaefolium* the basal membrane is not distinct.

179. Asterina tenuis Wint., Hedw. 26:94. 1886. On Claoxylon, Dalachampia, Acalypha, Euphorbiaceae. Ascomata 85-130 μ, asci 70-75 x 26-32 μ, spores 16-18 x 8-9 μ. Dubious. Syll. Fung. 9:389. Theissen's key 106.

180. Asterina concinna Syd., Ann. Myc. 28-134. 1930. On Macroscepis, Asclepiadaceae. Ascomata 90-160 μ, asci 25-32 μ, spores 18.5-16 x 8-10 μ.

181. Asterina celtidicola Henn., Hedw. 44:64. 1905; Syll. Fung. 17:876; Abh. K. K. Zool.-Bot. Ges. 7:94. 1913. On Celtis, Ulmaceae. Ascomata 85-135 μ, asci 23-30 x 26-33 μ, spores 9-8 x 18-16 μ. *Var.* microspora Doidge, Trans. Roy. Soc. So. Afr. 8:160. 1920; Bothalia 2:204. 1927. On Maeura, Capparis, Capparidaceae; Oncoba, Kiggelaria, Flacourtiaceae. *Var.* capparidis Theiss., Abh. K. K. Zool.-Bot. Ges. 7:94. 1913; Ann. Myc. 26:439. 1928. *Asterina capparidis* Syd. and Butl., Ann. Myc. 9:390. 1911. "Var. *microspora* differs from the type and also from var. *capparidis* chiefly in the size of the spores and asci. Var. *capparidis* differs from the type in the short cubical cells composing the ascomata, which are not so delicate as those of the type." Theissen's key 69.

182. Asterina consociata Wint., in Speg., Fungi Guar. 2:149, no. 131. On Maclura, Moraceae. Ascomata 80-100 μ, asci 35-40 x 25-30 μ, spores 18 x 9 μ. *Var.* rectangularis Rehm, Hedw. 40:161. 1901. Syll. Fung. 16:1141. On Euphorbiaceae. Perhaps this variety is *A. diplocarpa* Cke. or *A. eupomatiae* var. *dalachampiae.* Theiss. Syll. Fung. 9:387; Abh. K. K. Zool.-Bot. Ges. 7:98. 1913. Theissen's key 74.

183. Asterina isothea Syd., Ann. Myc. 25:64. 1927. On Triumfetta, Tillaceae. Ascomata 100-160 μ, asci 32-36 x 27-33 μ, spores 14-19 x 7.5-9 μ. Coindia: *Asterostomella isothea* Syd.

184. Asterina marginalis Petr., Ann. Myc. 29:240. 1931. On Claoxylon, Euphorbiaceae. Ascomata 80-150 μ, asci 22-32 μ, spores 16-19 x 7-9 μ.

185. Asterina congesta Cke., Grev. 8:95. 1879. On Santalum, Santalaceae. Ascomata 100-150 μ, spores 20 x 10 μ. Near *A. megalospora* B. and C. and *A. azarae* Lév. Conidia: Asterostomella.

186. Asterina aganosmae Petr., Ann. Myc. 29:238. 1931. On Aganosma, Apocynaceae. Ascomata 100-160 μ, asci 28-36 μ, spores 16-19 x 7-9 μ.

187. Asterina banisteriae Syd., Ann. Myc. 27:50. 1929. On Banisteria, Malpighiaceae. Ascomata 80-160 μ, asci 25-35 μ, spores 15-20 x 7-9 μ.

188. Asterina tetracerae Syd., Ann. Myc. 29:235. 1931. On Tetracera, Dilliniaceae. Ascomata 80-160 μ, asci 25-35 μ, spores 15-20 x 7-9 μ.

189. Asterina tertia Rac., *ap.* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:103. 1913. On Adhatoda, Crosandra, Ruellia, Acanthaceae. Ascomata 120-160 μ, asci 40-48 x 20-23 μ, spores 16-20 x 8-10 μ. Sub *Asterina adhatodae* Koord. "Verwandt mit *A. lawsoniae* doch sind die Konidienwands gleichmassig dick und gleichmassig braun, ohne den hellen aequatorialen Ring." *Var.* africana Doidge, Trans. Roy. Soc. So. Afr. 8:264. 1920. On Hypoestes, Isoglossa, Dicliptera, Peristrophe, Acanthaceae. Ascomata and spores smaller than the type. Syll. Fung. 24:443; Jour. Dept. Agr. Puerto Rico 13:231. 1929. Theissen's key 81.

190. Asterina cupheae Syd., Ann. Myc. 25:55. 1927. On Cuphea, Lythraceae. Ascomata 120-180 μ, asci 32-40 x 25-32 μ, spores 17-20 x 7-9 μ.

191. Asterina jacaratiae Theiss., Ann. Myc. 14:269. 1916. On Jacaratia, Caricaceae. Ascomata 100-140 μ, asci 54 x 32 μ, spores 17-20 x 9-10 μ. Conidia: *Asterostomella jacaratiae* Theiss. Syll. Fung. 24:446.

192. Asterina clausenicola Doidge, Trans. Roy. Soc. So. Afr. 8:263. 1920. On Clausena, Rutaceae. Ascomata 110-140 μ, asci 27-30 x 23-24 μ, spores 19-20 x 6.4-8 μ. Doidge's key 28.

193. Asterina acalyphae Syd., Ann. Myc. 23:395. 1925. On Alcalypha, Euphorbiaceae. Ascomata 100-180 μ, asci 27-45 x 24-32 μ, spores 17-21 x 10-12 μ. Conidia: *Asterostomella acalyphae.*

194. Asterina wrightiae Syd., Ann. Myc. 29:236. 1931. On Wrightia, Apocynaceae. Ascomata 100-180 μ, asci 30-40 x 22-28 μ, spores 18 x 21 x 8-10.5 μ.

195. Asterina amadelpha Syd., Ann. Myc. 27:56. 1929. On Conostegia, Melastomataceae. Ascomata 80-170 μ, asci 32-40 x 20-25 μ, rarely 55 μ, spores 17-22 μ. "Die Art gehört in die Verwandtschaft von *A. melastomataceae* (Henn.) Theiss., und *A. transiens* Theiss., erscheint aber von beiden genugend verschieden."

196. Asterina diplocarpa Cke., Grev. 10:129. 1882; Syll. Fung. 9:381.

Asterina similis Cke., Grev. 10:130. 1881. *Asterina sidae* Earle, Plants of Puerto Rico 6333, Bull. N. Y. Bot. Gard. 3:310. 1900. *Asterina kwangensis* Henn., in herb. Berlin. *Asterina huallagensis* Henn. (not Theiss.), Hedw. 43:372. 1904; Syll. Fung. 17:879. *Asterina sidicola* Ryan, Mycologia 16:181. 1924. On Corchorus, Tiliaceae; Croton, Euphorbiaceae; Sida, Abutilon, Malvaceae; Asclepidaceae. Ascomata 85-135 μ, asci 28-42 x 24-30 μ, spores 17-22 x 8-10 μ. *Var.* cestricola Ryan, Mycologia 16:187. 1924. On Cestrum, Solanaceae. Ascomata 132-168 μ, asci 31 x 36 or 24 μ in diameter, spores 19 x 7 μ. Syll. Fung. 22:538; Abh. K. K. Zool.-Bot. Ges. 7:106. 1913; N. Y. Acad. Sci. 8:19. 1926; Ann. Myc. 28:135. 1930; Mycologia 17:132. 1925. Theissen's key 84.

197. Asterina aemula Syd., Ann. Myc. 25:48. 1927. On Lauraceae. Ascomata 120-200 μ, asci 35-45 x 25-33 μ, spores 17-22 x 8-10 μ. "Die Art steht sweifellos der *A. ampullulipeda* Speg. and *A. hamata* Syd. sehr. nahe."

198. Asterina travancorensis Syd., Ann. Myc. 13:38. 1915. On Marsdenia, Asclepiadaceae. Ascomata 130-160 μ, asci 26-35 x 22-28 μ, spores 18-22 x 9-11 μ. Syll. Fung. 24:444.

199. Asterina oligopoda Syd., Ann. Myc. 28:139. 1930. On Gonzalea, Rubiaceae. Ascomata 100-170 μ, asci 36-42 x 23-30 μ, spores 17-23 x 7.5-10 μ.

200. Asterina dorsteniae Syd., Ann. Myc. 25:27. 1927. On Dorstenia, Moraceae. Ascomata 100-150 μ, asci 33-45 x 25-28 μ, spores 17-23 x 10-12 μ. "Uber die dazugehörige Konidiengeneration vgl. *Asterostomella dorsteniae* Syd."

201. Asterina benguetensis Petr., Ann. Myc. 29:239. 1936. On Solanum, Solanaceae. Ascomata 100-200 μ, asci 28-36 μ, spores 17-23 x 9-12 μ.

202. Asterina hamata Syd., Ann. Myc. 25:61. 1927. On Phoebe, Lauraceae. Ascomata 100-150 μ, asci 32-55 x 25-35 μ, spores 20-23 μ. "Die Art steht zweifellos der *A. ampullulipeda* Speg. nahe, unterscheidet sich aber nach der von Theissen (Die Gattung Asterina p. 68) gegebenen Beschreibung und Abbildung dieser Art namentlich durch das ganz unregelmassig netzartig verzweigte Mysel mit oft gegenständigen, fast stets mehr weinger stark gekrümmten Hyphopodien."

203. Asterina solanicola B. and C., Cuban Fungi 738, Jour. Linn. Soc. 10:374. 1868. *Asterina hyphaster* Henn., Hedw. 41:299. 1902; Syll. Fung. 17:876. 1905. *Asterina turnerae* Henn., Hedw. 44:371. 1904. Syll. Fung. 17:878. *Dimerosporium hyphaster* Arn., Ann. École Nat. Agr. Montp. 16:180. 1918. On Cestrum, Solanum, Solanaceae; Malvastrum, Pavonia, Malvaceae; Casearia, Flacourtiaceae; Turnera, Turneraceae; Croton, Euphorbiaceae; Clusia, Guttiferaceae; Asclepiadaceae.

Ascomata 80-140 μ, asci 25-32 μ in diameter or 40 x 34 μ, spores 17-24 x 8-12 μ.

Var. cristata Theiss., Abh. K. K. Zool.-Bot. Ges. 7:105. 1913. *Asterina cristata Speg.*, Fungi Guar. 2:26; Syll. Fung. 9:391. 1891. *Asterina triloba* Earle, Bull. N. Y. Bot. Gard. 3:310. 1905. *Asterina balansae* var. *ildefonsiae* Rehm, Ann. Myc. 10:24. 1912. Syll. Fung. 22:542; Abh. K. K Zool.-Bot. Ges. 7:104. 1913; Mycologia 17:134. 1925. Theissen's key 83.

204. Asterina phoebes Syd., Ann. Myc. 25:68. 1927. On Nectandra, Phoebe, Lauraceae. Ascomata 130-200 μ, asci 30-40 x 22-35 μ, spores 18-24 x 7.5-9 μ. Ann. Myc. 27:52. 1929.

205. Asterina azarae Lév., Ann. Sci. Nat. 3:59. 1845; Syll. Fung. 1:51. *Asterula azarae* Sacc., Syll. Fung. 9:377. 1891. *Asterina darwini* Berk., Fl. Antarct. 2:452, tab. 16, fig. 2. *Dimerosporium azarae* Arn., Ann. École Nat. Agr. Montp. 16:177. 1918. On Azara, Flacourtiaceae. Ascomata 200-350 x 100-200 μ, asci 40 x 35-38 μ, spores 20-24 x 8-10 μ. Conidia: Asterostomella. Syll. Fung. 9:393; Abh. K. K. Zool.-Bot. Ges. 7:101. 1913; Ann. Myc. 25:52. 1927; 10:9. 1912.

206. Asterina loranthicola Syd., Ann. Myc. 12:266. 1914. On Loranthus, Loranthaceae. Ascomata 100-160 μ, asci 30-38 x 24-30 μ, spores 20-24 x 8-11 μ. Syll. Fung. 24:457.

207. Asterina sodalis Syd., Ann. Myc. 26:95. 1928. On Symplocus, Symplocaceae. Ascomata 120-150 μ, asci 40-50 x 36-36 μ, spores 22-24 x 10-12 μ.

208. Asterina malaisiae Syd., Ann. Myc. 29:228. 1931. On Malaisia, Moraceae. Ascomata 90-130 μ, asci 30-36 μ, spores 18-25 x 9-11 μ.

209. Asterina chloranthi Syd., Ann. Myc. 29:227. 1931. On Chloranthus, Chloranthaceae. Ascomata 90-160 μ, asci 30-40 x 27-34 μ, spores 18-25 x 8-11 μ.

210. Asterina bataaensis Petr., Ann. Myc. 29:229. 1931. On Phaleria, Thymelaceae. Ascomata 90-150 μ, asci 30-40 x 25-33 μ, spores 19-25 x 9-12 μ.

211. Asterina solanicoloides Rehm, Hedw. 36:150. 1896. *Asterina vagans* var. *solanicoloides* Rehm, Abh. K. K. Zool.-Bot. Ges. 7:95. 1913. On Solanum, Solanaceae. Ascomata 100-170 μ, asci 50-60 x 30-40 μ, spores 20-25 x 9-12 μ. Abh. K. K. Zool.-Bot. Ges. 7:97. 1913. Theissen's key 73.

212. Asterina consobrina Syd., Ann. Myc. 25:49. 1927. On Solanum, Solanaceae. Ascomata 60-150 μ, asci 40-50 x 30-38 μ, spores 20-25 x 11-13 μ. "Unter den zahlreichen Solanum-gewohnenden Arten der Gattung kommt für die vorliegende Form nur *A. solanicola* B. and C. et Betracht. Von dieser Art interscheidet sich die neue Art besonders durch die meist nicht oder nur wenig gelappten Hyphopodien und die durch schnittlich

etwas grosseren, mit glattem Epispor versehenen Sporen. Auch gehört nach Theissen *A. solanicola* zu den Arten der Gattung, die eine deutlich ausgebildete Basalmembran besitzen. Dies ist bei der neuen Form aber nicht der Fall."

213. Asterina caricarum Rehm, Hedw. 35:161. 1895. Syll. Fung. 14:695; Ann. Myc. 31:144. 1933. *Asterostomella caricae* Henn., Hedw. 44:391. 1904. *Seynesia balansae* Speg., in Ule col. no. 1134 and 970, herb. Berlin. On Carica, Caricaceae. Ascomata 100-140 μ, asci 42-48 or 50 x 28 μ, spores 22-25 x 10-12 μ. *Var.* microspora Theiss., Abh. K. K. Zool.-Bot. Ges. 7:95. 1913. Spores 17-22 x 8-11 μ. Theissen's key 71.

214. Asterina venezuelana Syd., Ann. Myc. 28:144. 1930. On Clidemia, Melastomataceae. Ascomata 180-250 μ, asci 48-60 x 24-30 μ, spores 20-26 x 11-13 μ.

215. Asterina escharoides Syd., Abh. K. K. Zool.-Bot. Ges. 7:101. 1913. On Platea, Icacinaceae; Pittosporium, Pittosporaceae; Quisqualis, Combretaceae. Ascomata 130-175 μ, asci 26-40 x 24-32 μ, spores 17-22 x 8-12 μ. Syll. Fung. 24:447, 455; Philipp. Jour. Sci. 8:489. 1914; Leaflet Philipp. Jour. Sci. 4:1155. 1911. Theissen's key 86.

216. Asterina megalospora B. and C., Jour. Linn. Soc. 10:373. 1869. *Asterina passifloricola* Ryan, Mycologia 16:183. 1924. *Asterina cubensis* Sacc. and Syd., Syll. Fung. 14:698. 1899. On Passiflora, Passifloraceae. Ascomata 120-200 or 200-240 x 120-140 μ, asci 45-50 x 35-40 μ, spores 21-26 x 10-11 μ. Conidia: Asterostomella. *Var.* meizopoda Theiss., Abh. K. K. Zool.-Bot. Ges. 7:107. 1913. *Asterina passiflorae* Sacc., Syll. Fung. 17:877. 1905. *Asterella passiflorae* Henn., Syll. Fung. 1:41. 1882. Ascomata 120-180 μ, asci 30-40 x 20-25 μ, spores 16-22 x 8-12 μ. Ann. Myc. 28:138. 1930; 25:66. 1927. Theissen's key 85.

217. Asterina denigrata Pat., Ann. Myc. 27:57. 1927. On Blakea, Melastomataceae. Ascomata 30-130 μ, asci 42-50 x 38-40 μ, spores 22-26 x 10-11 μ.

218. Asterina vagans Speg., Fungi Guar. II, no. 127. 1883. *Dimerosporium vagans* Arn., Ann. École Nat. Agr. Montp. 16:176. 1918. On Solanum, Solanaceae: Tournefortia, Cordia, Borraginaceae. Ascomata 100-150 μ, asci 40-50 x 25-30 μ, spores 22-26 x 10-12 μ. Syll. Fung. 9:390. *Var.* subreticulata Theiss., Abh. K. K. Zool.-Bot. Ges. 7:95. 1913. *Asterina subreticulata* Speg., Fungi Guar. I, no. 138; Syll. Fung. 9:390. 1891. *Myxasterina subreticulata* v. Höhn., Frag. zur Myk. no. 422. On Solanum, Cestrum, Solanaceae; Rinorea, Violaceae. Abh. K. K. Zool.-Bot. Ges. 7:96. 1913; Trans. Roy. Soc. So. Afr. 8:261. 1920; Mycologia 16:180. 1924; Ann. Myc. 25:76. 1927; 27:54. 1929; 28:144. 1930. Theissen's key 70.

219. Asterina coriacella Speg., Bol. Acad. Nac. Ci. Cordoba, 11:560. 1889. On Cestrum, Solanaceae. Ascomata 100-180 or 150-300 x 90-150 μ,

asci 44-56 x 32-36 μ, spores 22-26 x 10-12 μ. Syll. Fung. 9:390; Mycologia 17:133. 1925; Abh. K. K. Zool.-Bot. Ges. 7:108. 1913; Ann. Myc. 31:144. 1933. Theissen's key 87.

220. Asterina indecora Syd., Ann. Myc. 25:63. 1927. On Malpighia, Malpighiaceae. Ascomata 90-140 μ, asci 33-45 x 25-37 μ, spores 22-26 x 11-13 μ. "Die Schlauchform ist nur sehr spärlich entwickelt, meist wird nur die dazu gehörige *Asterostomella indecora* angetroffen."

221. Asterina pseudopelliculosa Speg., Fungi Puigg. no. 356, Bol. Acad. Nac. Ci. Cordoba 11:566. 1889. On Ipomea, Convolvulaceae. Ascomata 80-120 μ, asci 40-55 x 30-35 μ, spores 18 x 8 μ. Syll. Fung. 9:391. 1891. *Var.* peraffinis (Speg.) Theiss., Abh. K. K. Zool.-Bot. Ges. 7:104. 1913. *Asterina peraffinis* Speg., Fungi Puigg. no. 355, Bol. Acad. Nac. Ci. Cordoba 11:565. 1889. Syll. Fung. 9:392. 1891. On Tylophora, Asclepiadaceae. *Form africana: Asterina strophanthi* Henn., Engl. Jahrb. 38:125. 1905. Abh. K. K. Zool.-Bot. Ges. 7:104. 1913. On Strophanthus, Apocynaceae; Ipomea, Convolvulaceae. Ascomata 70-120 μ, asci 25-38 x 18-22 μ, spores 13-16 x 7-8 μ. Syll. Fung. 22:541. Theissen's key 82.

222. Asterina aphanes Petr., Ann. Myc. 27:49. 1929. On Rapanea, Myrsinaceae. Ascomata 250-450 μ, asci 45-55 x 25-35 μ, spores 21-27 x 9-12 μ.

223. Asterina mexicana Ell. and Ev., Bull. Torr. Bot. Club 26:51, 1900. On Agave, Amaryllidaceae. Ascomata 110-150 μ, asci 40-60 x 20-30 μ, spores 22-27 x 8-10 μ. Doubtful species. Syll. Fung. 16:648. 1902; Abh. K. K. Zool.-Bot. Ges. 7:112. 1913. Theissen's key 97.

224. Asterina schlechteriana Syd., Ann. Myc. 25:71. 1927; *ibid.* 27:54. 1929. On Clidemia, Melastomataceae. Ascomata 170-280 μ, asci 55-65 x 30-40 μ, spores 22-32 μ.

225. Asterina erebia Syd., Ann. Myc. 25:59. 1927; *ibid.* 27:51. 1929. On Palicourea, Rubiaceae. Ascomata 150-300 μ, asci 55-65 μ, spores 26-32 x 13-16 μ.

226. Asterina orthosticha Syd., Ann. Myc. 28:140. 1930. On Doliocarpi, Dilleniaceae. Ascomata 150-200 μ, asci 50-58 x 45-52 μ, spores 30-35 μ. Conidia: *Asterostomella orthosticha.*

227. Asterina pulchella Petr., Ann. Myc. 27:53. 1929; *ibid.* 28:142. 1930. On Securidaca, Polygalaceae. Ascomata 180-350 μ, asci 42-70 x 35-45 μ, spores 24-35 x 13-15 μ.

228. Asterina clemensiae Petr., Ann. Myc. 29:231. 1931. On Polyalthia, Anonaceae. Ascomata 70-180 μ, asci 45-50 μ, spores 28-35 μ.

229. Asterina styracina Syd., Ann. Myc. 25-73. 1927. On Styrax, Styraceae. Ascomata 150-250 μ, asci 50-60 μ, spores 27-36 x 16-20 μ. "*A. styracis* Theiss. und *A. guaranitica* Speg. sind zunachst vollstandig von der vorliegenden Art verschieden. *A. multiplex* Rehm welche von Theissen wohl zu Unrecht mit *A. brachystoma* (Rehm) Theiss. vereingt wurde, interscheidet sich von meinen Exemplaren durch anderen Kontext

der Thyriothecien und Auftreten deutlicher Paraphysen. Die vierte entsprechen doch wurde auch nach der Beschreibung von Theissen etwas anders gebaute Thyriothecien und vor allen Dingen deutlich ungleich septierte Sporen besitzen."

230. Asterina buttneriae Theiss., Abh. K. K. Zool.-Bot. Ges. 7:99, tab. 2, fig. 19-21; tab. 4, fig. 15. 1913. On Buttneria, Sterculiaceae. Ascomata 140-170 μ, asci 35-48 x 30-35 μ, spores 23-27 x 9-11 μ. Syll. Fung. 24:473. Theissen's key 76

231. Asterina radio-fissilis (Sacc.) Theiss., Frag. brasil. no. 115, Ann. Myc. 10-22. 1912. *Dimerium radio-fissile* Sacc., F. aliquot afr., Bol. Soc. Broteriana 21:21. 1904. On Kraussia, Rubiaceae. Ascomata 80-140 μ, asci 32-42 x 25-30 μ, spores 17-19 x 8-10 μ. *Var. macrospora* Theiss., Abh. K. K. Zool.-Bot. Ges. 7:97. 1913. Spores 25-28 x 11-13 μ. Theissen's key 72.

232. Asterina papillata Syd., Ann. Myc., 14:92. 1916. On Capparis, Capparidaceae. Ascomata 140-200 μ, asci 38-48 x 35-42 μ, spores 24-28 x 12-13 μ. Syll. Fung. 24:446.

233. Asterina tacsoniae Pat., Bull. Soc. Myc. Fr. 40:147. 1893; Syll. Fung. 11:255. *Seynesia lagerheimii* Rehm, Hedw. 37:325. 1898; Syll. Fung. 16:640. On Tacsonia, Passifloraceae. Ascomata 100-180 μ or 150-300 x 90-150 μ, asci 50-60 x 35 μ, spores 22-29 x 10-13 μ. *Var.* passiflorae Ryan, Mycologia 16:184. 1924; N. Y. Acad. Sci. 8:20. 1926. On Passiflora, Passifloraceae. Ascomata 132-156 μ, asci 24 x 29-32 μ, spores 14-19 x 6-7 μ. Theissen's key 79.

234. Asterina sponiae Rac., Parasit. Algen und Pilze Javas 3:34. 1900; Syll. Fung. 16:647. 1902. *Asteronella epitrema* Cke., Grev., 20:7. 1891. *Asterina stylospora* Cke., Grev. 10:129. 1881. On Sponia, Trema, Ulmaceae. Ascomata 100-120 μ, asci 50-65 x 42-52 μ, spores 25-30 x 12-16 μ. Abh. K. K. Zool.-Bot. Ges. 7:100. 1913; Ann. Myc. 25:92. 1927; *ibid.* 21:103. 1923; *ibid.* 28:143. 1930; *ibid.* 29:225. 1931. Theissen's key 78.

235. Asterina pittieri Bomm. and Rouss., Bull. Soc. Roy. Bot. Belg., p. 156. 1896. On Angelica, Umbelliferae. Ascomata 126-150 μ, asci 32-47 μ, spores 28-36 x 18-28 μ. Syll. Fung. 14:695. Theissen says (86) that this is a doubtful species.

236. Asterina ramonensis Syd., Ann. Myc. 25:29. 1927. Host not known. Ascomata 180-250 μ, asci 60-75 x 50-60 μ, spores 33-39 μ. "Die Art steht der *A. paraguayensis* Speg. nahe, ist aber zweifellos gut verschieden."

It seems advisable to keep the following species in the genus Asterina, even though they have somewhat elongated ascomata. The description of the genus *Asterina* reads, "ascomata circular," but in the general description for *Dimerosporium* Fckl. we read, "ascomata subglobose." Further, the type species, *A. azarae* Lév., has subglobose ascomata.

Subgenus DIMEROSPORIUM Theissen

237. Asterina psychotriae Ryan, Mycologia 16:185. 1924. On Psychotria, Rubiaceae. Ascomata 94-240 x 84-201 μ, asci 24-48 μ, spores 14-19 x 7-12 μ.

238. Asterina sphaerelloides Speg., Fungi Guar. non nulli, no. 123; Rev. Argentina Hist. Nat. I, Buenos Aires, 1891; Syll. Fung. 11:255. 1895. *Asterina ellisii* Sacc. and Syd., Syll. Fung. 14:693. 1899. *Asterina loranthacearum* Rehm, Ann. Myc. 5:522. 1907; Abh. K. K. Zool.-Bot. Ges. 7:78. 1913. On Ilex, Aquifoliaceae; Clematis, Ranunculaceae. Ascomata 70-120 x 100-130 μ, asci 30-35 x 25-30 μ, spores 20-24 x 10-12 μ. Syll. Fung. 22:541; Sitz. K. Akad. Wiss. Wien 129:140. 1920.

239. Asterina elaeagni (Syd.) Syd., Ann. Myc. 29:225. 1931. *Asterinella elaeagni* Syd., Ann. Myc. 18:101. 1920. On Elaeagnus, Elaeagnaceae. Ascomata 90-160 x 70-100 μ, asci 25-35 x 25-30 μ, spores 18-20 x 7-8 μ. Syll. Fung. 24:481.

240. Asterina casjerae Ryan, Mem. Dept. Agr. India 15:103. 1927. On Casjera, Opiliaceae. Ascomata 160-200 x 120-144 μ, asci 28-32 x 36-44 μ, spores 18-22 x 8 μ.

241. Asterina salaciae Allesch., Hedw. 36:235. 1897; Syll. Fung. 14:694. *Dimerosporium salaciae* Henn., Hedw. 35:105. 1896; Syll. Fung. 14:694; Abh. K. K. Zool.-Bot. Ges. 7:80. 1913. On Salacia, Hippocrataceae. Ascomata 280 x 150-180 μ, asci 40-32 or 54 x 35 μ, spores 22-25 x 10-11 μ.

242. Asterina subglobulifera v. Höhn., Sitz. K. Acad. Wiss. Wien 129:141. 1920. On Palmae. Ascomata 500 x 300 μ, asci 68-74 x 52-54 μ, spores 40-44 x 18-20 μ. Theissen's key 19.

Subgenus CLYPEOLASTER Theissen

243. Asterina costaricensis Syd., Ann. Myc. 25:56. 1927. On Jacobinia, Acanthaceae. Ascomata 170 x 150 μ, asci 24-33 x 20-27 μ, spores 15-18 x 7-9 μ.

244. Asterina azarae Lév. See No. 205.

38. ASTEROMYXA Theissen and Sydow

Annales Mycologici 15:419. 1917.

Type: *A. hirtula* (Speg.) Theiss. and Syd.

Characters: Mycelium present, no hyphopodia; ascomata radiate, ostiolate, spiny, slimy-dissolvent, aparaphysate, spores brown, 2-celled.

1. Asteromyxa hirtula (Speg.) Theiss. and Syd., *l. c. Dimeriella hirtula* Speg. On Baccharis, Compositae. Ascomata 60-90 μ, asci 35-40 x 15-18 μ, spores 14 x 5 μ. Syll. Fung. 22:37. 1913.

2. Asteromyxa surigaoensis Mendoza, Philipp. Jour. Sci. 49:190. 1932. On Anonaceae. Ascomata 86-102 μ, asci 31-44 x 19-27 μ, spores 14-19 x 8-9 μ.

3. Asteromyxa inconspicua Doidge, Bothalia 2:199. 1927. On Chilianthus, Loganiaceae. Ascomata 160-270 μ, asci 30-35 x 22-24 μ, spores 17-22 x 6-8.5 μ.

39. THALLOCHAETE Theissen

Annales Mycologici 11:501. 1913.

Type: *T. ingae* Theiss.

Characters: Ascomata superficial, inverse, radiate; mycelium branching, septate, producing erect setae; asci 8-spored, aparaphysate; spores brown, 2-celled; conidia 4-celled, no hyphopodia.

1. Thallochaete ingae Theiss., *l. c.*, fig. 4; tab. 21, fig. 6. On Inga, Leguminosae. Ascomata 100-180 μ, asci 28-35 x 16-20 μ, spores 18-22 x 6-8 μ.

40. ASTERINELLA Theissen

Annales Mycologici 10:160. 1912.

Type: *A puiggarii* (Speg.) Theiss.

Characters: Mycelium present, non-hyphopodiate; ascomata dimidiate, radiate, ostiolate; asci paraphysate; spores brown, 2-celled.

Literature: Ann. Myc. 10:101. 1912.

Synonymous genera:

1) *Hariotula* Arn., Ann. École Nat. Agr. Montp. 16:201. 1918. Type: *H. loranthi* (K. and H.) Arn. This is considered as Asterinella.

2) *Opeasterinella* Speg., Bol. Acad. Nac. Ci. Cordoba 23:498. 1919. Type: *O. brasiliensis* Speg., Fung. al Paul. n. 79, *l. c.* This genus does not seem to be distinct from Asterinella. Asterinella formerly contained both paraphysate and aparaphysate forms. The aparaphysate species have been removed and placed in the genus Prillieuxina Arn. The species are arranged in order of maximum spore length.

1. Asterinella cupressina (Rehm) Theiss., Broteria 10:110. 1912. *Asterina cupressina* Cke., Grev. 6:17. 1877; Syll. Fung. 1:42. *Venturia cupressina* Rehm, Kew Herb. no. 394. On Cupressus, Pinaceae; Myrceugenia, Myrtaceae. Spores 16 x 6 μ; paraphyses hyaline, delicate. Conidia: Asterostomella.

2. Asterinella lembosioides Doidge, Trans. Roy. Soc. So. Afr. 8:267. 1920. On Balladyna and Meliola, fungi; Plectronia, Rubiaceae. Ascomata 200-240 μ or 280-320 x 160-240 μ, asci 33-43 x 17-20 μ, spores 15-17 x 8.5-10 μ.

3. Asterinella leptotheca (Speg.) Theiss., Ann. Myc. 10:174. 1912. *Asterina leptotheca* Speg., Fungi Puigg. no. 351, Bol. Acad. Nac. Ci. Cordoba 11:563. 1889. Syll. Fung. 9:386. 1891. *Mycrothyrium confluens* Pat., Bull. Boiss. p. 72. 1895; Syll. Fung. 11:380; Broteria 10:111. 1912. *Seynesia solani* (Speg.) Rehm, Hedw. 37:327. 1898. On Hirea, Malpighiaceae; Solanum, Cestrum, Solanaceae. Ascomata 100-200 μ, asci 45 x 16 μ, spores 14-18 x 5-8 μ. Öst. Bot. Zeitschr. 62:218. 1912.

4. Asterinella drymidis (Lév.) Speg., Bol. Acad. Nac. Ci. Cordoba 25:92. 1921. *Lembosia drymidis* Lév., Ann. Sci. Nat. ser. 3, 3:58. 1845. *Asterina compacta* Lév., Ann. Sci. Nat. ser. 3, 3:60. 1845. On Drymis, Magnoliaceae. Asci ovoid, 40-45 x 25 μ, spores 18-20 x 6-7 μ. Syll. Fung. 2:743; Abh. K. K. Zool.-Bot. Ges. 7:22. 1913; Ann. Myc. 11:425. 1913.

5. Asterinella stuhlmanni (Henn.) Theiss., Broteria 10:120. 1912. *Asterina stuhlmanni* Henn., Notisbl. Bot. Gart. p. 239. 1903. On Ananassa, Bromeliaceae. Ascomata 120-140 μ, asci 25-32 x 18-24 μ, spores 16-19 x 8 μ. Syll. Fung. 17:881; Ann. Myc. 21:104. 1923.

6. Asterinella hippeastri Ryan, Mycologia 16:188. 1924. On Hippeastrum and Hippocratea, Hippocrataceae; Amaryllidaceae. Ascomata 120 μ, asci 19-21 x 29-31 μ, spores 19 x 5-7 μ. N. Y. Acad. Sci. 8:21. 1926.

7. Asterinella epidendri (Rehm) Theiss., Broteria 10:180. 1912. *Seynesia epidendri* Rehm, Hedw. 39:228. 1904; Syll. Fung. 16:641. On Epidendrum, Orchidaceae. Ascomata 150-180 u, asci 60 x 15 μ, spores 16-20 x 8 μ. Öst. Bot. Zeitschr. 63:124. 1913.

8. Asterinella gracilis Syd., Ann. Myc. 12:559. 1914. On Derris, Leguminosae. Ascomata 90-140 μ, or 180-230 x 70-90 μ, asci 20-28 x 18-22 μ, spores 18-20 x 7-8 μ. Syll. Fung. 24:481.

9. Asterinella brasiliensis (Wint.) Theiss., Ann. Myc. 10:173. 1912. *Asterina brasiliensis* Wint., Hedw. 32:101. 1892. Syll. Fung. 11:255. *Microthyrium disiunctum* Rehm, Ann. Myc. 6:123. 1908. *Asterina disiuncta* v. Höhn., in herb. *Opeasterinella brasiliensis* Speg., Bol. Acad. Nac. Ci. Cordoba 23:498. 1919. On Calliandra, Leguminosae; Solanum, Solanaceae. Ascomata 200-250 μ, asci 80-100 x 20-23 μ, spores 18-22 x 9-12 μ. Syll. Fung. 22:518; Öst. Bot. Zeitschr. 62:276. 1912.

10. Asterinella palawanensis Syd., Philipp. Jour. Sci. 9:182. 1914. On Plectronia, Rubiaceae. Ascomata 200-350 μ, asci 45-55 x 24-34 μ, spores 18-24 x 7-8.5 μ. Syll. Fung. 24:484.

11. Asterinella lugubris Syd., Philipp. Jour. Sci. 8:491. 1913. On Ixora, Rubiaceae. Ascomata 100-140 or 600 x 70-120 μ, asci 35-50 x 24-26 μ, spores 18-24 x 8-9 μ. Syll. Fung. 24:483.

12. Asterinella mindanaensis Syd., Ann. Myc. 21:103. 1923. On Arthrophyllum, Araliaceae. Ascomata 220-300 μ, asci 56-90 x 18-22 μ, spores 20-24 x 7-9 μ.

13. Asterinella dissiliens Syd., Ann. Myc. 22:425. 1924. On Elaeodendron, Celastraceae. Ascomata 130-200 μ, asci 45-55 x 25-35 μ, spores 21-24 x 9-10 μ.

14. Asterinella creberrima Syd., Ann. Myc. 15:247. 1917. *Asterinella regesiana* Rehm, Ann. Myc. 16:247. 1918. On Premna, Verbenaceae. Ascomata 70-120 μ, asci 35-40 x 30-35 μ, spores 24-27 x 12-13 μ. Syll. Fung. 24:485.

15. Asterinella sublibera (Berk.) Theiss., Broteria 10:113. 1912. *Asterina sublibera* Berk., Fl. N. Zeal. 2:210; Syll. Fung. 1:43. 1882. On Metrosideros, Myrtaceae. Ascomata 250-340 μ, asci 70-75 x 20-22 μ, spores 25-27 x 10 μ.

16. Asterinella puiggarii (Speg.) Theiss., Broteria 10:116; Frag. brasil. no. 139; Ann. Myc. 10:1912. *Asterina puiggarii* Speg., Fungi Guar. II, no. 124, Bol. Acad. Nac. Ci. Cordoba 11:566. 1889; Syll. Fung. 1:43. 1882. *Asterella balansae* Speg. var. *macrospora* Speg., in herb. *Microthyrium cantareirense* Henn., Hedw. 41:300. 1902. Syll. Fung. 17:863. *Asterina serrensis* Henn., Hedw. 48:12. 1908; Syll. Fung. 24:463. *Asterina typhospora* Maire, Ann. Myc. 6:148. 1908. *Asterella verrucolosa* Syd., Ann. Myc. 2:168. 1904. *Asterina leopeoldina* Rehm, Ann. Myc. 5:521. 1907; Syll. Fung. 14:698. *Asterella missionum* Speg., Myc. Arg. IV no. 735. 1909. *Asterella glaziovii* Henn., Hedw. 36:217. 1897. Syll. Fung. 14:698. 1899. *Seynesia balansae* var. *myrtacearum* Speg., Fungi Guar., Pug. I, no. 297, Bol. Acad. Nac. Ci. Cordoba 11. 1889. On Myrrhinii, Myrtaceae. Ascomata 50-70 μ, asci 40-45 x 30-35 μ, spores 27-30 x 9-15 μ. Abh. K. K. Zool.-Bot. Ges. 7:89. 1913.

17. Asterinella caaguazensis (Speg.) Theiss., Frag. brasil. no. 141, Ann. Myc. 10:173. 1912. *Microthyrium caaguazense* Speg., Fungi Guar., Pug. I, no. 296; Syll. Fung. 9:1055. 1891; Öst. Bot. Zeitschr. 62:217. 1912. *Microthyrium concatenatum* Rehm, Hedw. 38:321. 1898; Syll. Fung. 14:687. *Calothyriolum caaguazense* Speg., Fungi Guar., Pug. I, no. 296. 1882. On Myrrhinii, Calyptranthes, Campomanesiae, Myrtaceae. Ascomata 150-200 μ, asci 65-26 x 25-12 μ, spores 27-30 x 9-15 μ. Syll. Fung. 17:884; Broteria 10:117. 1912; 11:7. 1913; Abh. K. K. Zool.-Bot. Ges. 7:37. 1913; Öst. Bot. Zeitschr. 62:276. 1912.

18. Asterinella dysoxyli Syd., Ann. Myc. 29:242. 1931. On Dysoxylon, Meliaceae. Ascomata 80-200 μ, asci 35-50 μ, spores 24-32 μ.

19. Asterinella uleana (Pazs.) Theiss., Ann. Myc. 10:175. 1912. *Asterina uleana* Pazs., Hedw. 32:104. 1892; Syll. Fung. 11:255. *Seynesia megas* Rehm, Hedw. 37:325. 1898; Syll. Fung. 16:640. *Seynesia megas* var. *macrospora* Starb., Asco. I, Regm. Exped. Fung. Paul. Rev. Mus. La Plata 15:27. 1896; Syll. Fung. 22:540. 1913. *Asterina dispar* Speg. var. *paraphysata* Speg., in herb. On Styrax, Styraceae; Myrcia, Myrtaceae;

Chrysobalanus, Rosaceae; Brysonima, Malpighiaceae. Ascomata 400-450 μ, asci 85-90 x 35-38 μ, spores 35-42 x 16-20 μ.

20. Asterinella hydnocarpi Yates, Philipp. Jour. Sci. 12:372. 1917. (Corr. *Asterinella hydnocarpiae*). On Hydnocarpus, Flacourtiaceae. Ascomata 300-400 μ, asci 70 μ, spores 40-50 x 25-28 μ. Syll. Fung. 24:481.

21. Asterinella phoradendri (Henn.) Theiss., Broteria 10:108. 1912. *Asterina phorodendri* Henn., Hedw. 48:12. 1908. On Phoradendron, Loranthaceae. Asci 50-95 x 40-50 μ, spores 30-40 x 20-24 μ. Syll. Fung. 24:458.

22. Asterinella gmeliae Sacc. Notae Myc. 20. Nuova Giour. Bot. Ital. 23:199. 1916. On Gmelia, Verbenaceae. Ascomata 160 μ, asci 60-80 or 80 x 65 μ, spores 38 x 14-16 μ. Syll. Fung. 24:485.

23. Asterinella papayae Frag. and Cif., Bol. de Real. Soc. Esp. de Hist. Nat. 25:443. 1925. On Carica papaya, Caricaceae. Estacion Agron. de Moca, ser. B, no. 14, p. 70.

41. POLYTHYRIUM Sydow

Annales Mycologici 27:64. 1929.

Type: *P. costaricense* Syd.

Characters: Free mycelium present, no hyphopodia, ascomata orbicular, stellate ostiole, paraphyses present, gelatinous, spores 2-celled.

1. Polythyrium costaricense Syd., Ann. Myc. 27:64. 1929. On Picrammia, Simarubaceae. Ascomata 100-250 μ, asci 38-55 x 12-20 μ, spores 15-18 μ long.

2. **Polythyrium parameriae** (Petr.) Ryan, n. comb. *Asterinella parameriae* Petr., Ann. Myc. 29:243. 1931. On Parameria, Apocynaceae. Ascomata 90-160 μ, asci 30-38 x 25-30 μ, spores 17-21 x 8-10 μ.

3. **Polythyrium microchita** (Syd.) Ryan, n. comb. *Asterinella microchita* Syd., Ann. Myc. 26:96. 1928. On Nothophoebes, Lauraceae. Ascomata 75-120 μ, asci 27-35 x 23-28 μ, spores 20-23 x 9-10 μ.

42. CLYPEOLINA Theissen

Annales Mycologici 15:419. 1917.

Type: *C. apus* Theiss.

Characters: No hyphopodia; dimidiate, ostiolate, no paraphyses; spores 2-celled, brown. Like Clypeolella.

1. Clypeolina apus (Theiss.) Theiss., *l. c. Clypeolella apus* Theiss., Centralbl. Bakt. Abt. 2. 34:234. 1912. On Bignoniaceae. Ascomata 85-140 μ, asci 42-56 x 22-30 μ, spores 18-20 x 6.5-9 μ.

43. PRILLIEUXINA Arnaud

Ann. École Nat. Agr. Montp. 16:161. 1918.

Type: *P. winteriana* (Pazs.) Arn.

Characters: Free mycelium, non hyphopodiate; hymenium simple, aparaphysate; ascomata circular; spores 2-celled, dark.

The species are arranged in order of maximum spore length.

1. **Prillieuxina ixorae** (Ryan) Ryan, n. comb. *Asterinella ixorae* Ryan, Mycol. 16:189. 1924. On Ixora, Rubiaceae. Ascomata 89-112 μ, asci 14-17 x 9 μ, spores 9 x 2-7 μ.

2. **Prillieuxina mabae** (Stev. and Ryan) Ryan, n. comb. *Asterinella mabae* Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:75. 1925. On Maba, Ebenaceae. Ascomata 162 μ, asci 23 x 36 μ, spores 12 x 5 μ.

3. **Prillieuxina flexuosa** (Wint.) Ryan, n. comb. *Asterinella fleuxosa* (Wint.) Theiss., Broteria 10:104. 1912. *Asterella fleuxosa* Wint., Hedw. 32:101. 1892; Syll. Fung. 11:256. On Calliandra, Leguminosae. Ascomata 230-300 μ, asci 24-27 x 14-16 μ, spores 14 x 3.5 μ.

4. **Prillieuxina distinguenda** (Syd.) Ryan, n. comb. *Asterinella distinguenda* Syd., Philipp. Jour. Sci. 8:492. 1913. On Ixora, Rubiaceae. Ascomata 150-225 x 100-170 μ, asci 20-35 x 15-19 μ, spores 12-14 x 5.5-6.5 μ. Syll. Fung. 24:484.

5. **Prillieuxina acokantherae** (Doidge) Ryan, n. comb. *Asterinella acokantherae* Doidge, Trans. Roy. Soc. So. Afr. 8:266. 1920. On Acokanthera, Apocynaceae. Conidial stage only on Carissa, Apocynaceae. Ascomata 90-115 μ, asci 26-35 x 13-17 μ, spores 3.5-5 x 13-17 μ.

6. **Prillieuxina lepidotricha** (Theiss.) Ryan, n. comb. *Asterinella lepidotricha* Theiss., Ann. Myc. 14:271. 1916. On leaves. Ascomata 100-130 μ, asci 45-50 x 30-33 μ, spores 16-17 μ. Syll. Fung. 24:426.

7. **Prillieuxina burchelliae** (Doidge) Ryan, n. comb. *Asterinella burchelliae* Doidge, Trans. Roy. Soc. So. Afr. 8:267. 1920. On Burchellia, Rubiaceae. Ascomata 100-120 μ, asci 27-37 x 16-20 μ, spores 13-17 x 5-6.6 μ.

8. **Prillieuxina manaosensis** (Henn.) Ryan, n. comb. *Asterinella manaosensis* Theiss., Broteria 10:115. 1912. *Asterella manaosensis* Henn., Hedw. 43:370. 1904; Syll. Fung. 17:882. On Anonaceae. Ascomata 180-250 μ, asci 50-80 x 12-18 μ, spores 13-18 x 4-6 μ.

9. **Prillieuxina cylindrotheca** (Speg.) Ryan, n. comb. *Asterinella cylindrotheca* Theiss., Broteria 10:114. 1912. *Asterina cylindrotheca* Speg., Fungi Puigg. no. 349. 1889; Syll. Fung. 9:386. 1891; Bol. Acad. Nac. Ci. Cordoba 11:561. 1889. *Asterina macularis* Syd., Ann. Myc. 2:168. 1904; Syll. Fung. 17:883. *Asterella macularis* Syd., Ann. Myc. 2:168. 1904. On Eugenia, Myrceugenia, Myrtaceae. Ascomata 120-180

μ, asci 50-80 x 18-20 μ, spores 14-19 x 6-8 μ, pseudoparaphysate. N. Y. Acad. Sci. 8:21. 1926.

10. **Prillieuxina venusta** (Syd.) Ryan, n. comb. *Asterinella venusta* Syd., Ann. Myc. 18:101. 1920. On Anaxagorea, Anonaceae. Ascomata 60-100 x 50-70 μ, asci 20-30 x 20 μ, spores 15-20 x 5-6 μ. Syll. Fung. 24:479.

11. **Prillieuxina systema-solare** (Mass.) Ryan, n. comb. *Asterinella systema-solare* Theiss., Broteria 10:180. 1912. *Asterina systema-solare* Mass., Kew Bull. p. 160. 1901; Syll. Fung. 17:880. *Seynesia banksiae* Henn., Hedw. 42:78. 1903; Syll. Fung. 17:867. *Didymosphaeria banksiae* Cke., Grev. 19:90. 1890. On Banksia, Rosaceae. Ascomata 90-100 μ, asci 50-55 x 12 μ, spores 16-20 x 7-9 μ. Ann. Myc. 10:180. 1912. Öst. Bot. Zeitschr. 63:101. 1913.

12. **Prillieuxina intensa** (Cke. and Mass.) Ryan, n. comb. *Asterinella intensa* Theiss., Broteria 10:120. 1912. *Asterina intensa* Cke. and Mass., Grev. 15:101. 1886; Syll. Fung. 9:382. On Osmanthus, Oleaceae; Eleaedondron, Celastraceae; Pisonia, Nyctaginaceae. Ascomata 125 μ, spores 15 x 8 μ, or 18-21 x 8-9 μ. Bernice P. Bishop Mus. Bul. 19:75, 1925; Mem. Dept. Agr. India 15:105. 1927.

13. **Prillieuxina capizensis** (Mendoza) Ryan, n. comb. *Asterinella capizensis* Mendoza, Philipp. Jour. Sci. 49:189. 1932. On Leucosyke, Urticaceae. Ascomata 95-200 μ, asci 31-39 x 31-36 μ, spores 19-22 x 9-10 μ.

14. **Prillieuxina woodiana** (Doidge) Ryan, n. comb. *Asterinella woodiana* Doidge, Trans. Roy. Soc. So. Afr. 8:266. 1920. On Cryptocarya, Lauraceae. Ascomata 150-160 μ, asci 33-37 x 27-30 μ, spores 20-23 x 10 μ. Conidia: Asterostomella.

15. **Prillieuxina amazonica** (Syd.) Ryan, n. comb. *Asterinella amazonica* Syd., Ann. Myc. 14:92. 1916. On Ramisia, Nyctaginaceae. Ascomata 100-160 or 250 x 80-120 μ, asci 32-40 x 20-35 μ, spores 20-24 x 9-11 μ. Syll. Fung. 24:483.

16. **Prillieuxina anamirtae** (Syd.) Ryan, n. comb. *Asterinella anamirtae* Syd., Ann. Myc. 12:558. 1914. On Anamirta, Memispermaceae. Ascomata 80-100 μ, asci 50-60 x 35-40 μ, spores 22-25 x 9-11 μ. Syll. Fung. 24:482; Ann. Myc. 29:244. 1931.

17. **Prillieuxina ramuligera** (Syd.) Ryan, n. comb. *Asterinella ramuligera* Syd., Philipp. Jour. Sci. 9:182. 1914. On Microdesmus, Euphorbiaceae. Ascomata 140-200 μ, asci 35-47 x 30-40 μ, spores 20-26 x 10-12 μ. Syll. Fung. 24:481.

18. **Prillieuxina quinta** (Rac.) Ryan, n. comb. *Asterinella quinta* (Rac.) Theiss., Broteria 10:105. 1912. *Asterina quinta* Rac. in Herb. Java. Host not known. Ascomata 100-140 μ, asci 36-45 or 35-40 x 50-60 μ, spores 22-27 x 10-12 μ.

19. **Prillieuxina dipterocarpi** (Syd.) Ryan, n. comb. *Asterinella dipterocarpi* Syd., Ann. Myc. 12:558. 1914. On Dipterocarpus, Diptero-

carpaceae. Ascomata 140-200 or 400 μ, asci 55-70 x 35-45 μ, spores 24-28 x 8-10 μ. Syll. Fung. 24:480; Ann. Myc. 29:244. 1931.

20. **Prillieuxina multilobata** (Wint.) Ryan, n. comb. *Asterinella multilobata* (Wint.) Theiss., Broteria 10:119. 1912. *Asterina multilobata* Wint., Hedw. 26:25. 1886; Syll. Fung. 11:255; Rabh. Fungi Europi 3438. *Seynesia multilobata* (Wint.) Rehm, Hedw. 28:245. 1899. On Malpighiaceae; Raumirta, Paumirtaceae; Paullinia, Sapindaceae. Ascomata 100-150 μ, asci 35-42 or 22 x 46 μ, spores 22-29 x 10-11 μ. Mycologia 16:189. 1924.

21. **Prillieuxina cryptocaryae** (Cke.) Ryan, n. comb. *Asterinella cryptocaryae* (Cke.) Theiss., Broteria 10:107. 1912. *Asterina cryptocaryae* Cke., in herb. On Cryptocarya, Lauraceae; Prunus, Rosaceae; Symplocaceae. Ascomata 250-300 μ, asci aparaphysate, spores 26-29 x 10-13 μ.

22. Prillieuxina microspila Syd., Philipp. Jour. Sci. 21:141. 1922. On Leucosyke, Urticaceae. Ascomata 150-200 μ, asci 35-50 x 25-40 μ, spores 21-24 x 9-10 μ.

23. Prillieuxina winteriana (Pazs.) Arn., *l. c. Asterina winteriana* Pazs., Hedw. 32:104. 1892. *Asterinella winteriana* (Pazs.) Theiss., Broteria 10:122. 1912. *Asterina anonicola* Henn., Hedw. 41:108. 1902. On Anona, Rollinia, Anonaceae; Castanopsis, Fagaceae. Ascomata 140-340 or 550 x 220 μ, asci 55-65 x 42-45 μ, spores 12-14 x 27-31 μ. Syll. Fung. 17:877; 11:255; Mem. Dept. Agr. India 15:107. 1927.

24. **Prillieuxina diaphana** (Syd.) Ryan, n. comb. *Asterinella diaphana* (Syd.) Theiss., Broteria 10:105. 1912. *Asterina diaphana* Syd., Leaflet Philipp. Bot. 4:1155. 1911. On Solanum, Solanaceae. Ascomata 100-200 μ, asci 35-55 x 35-42 μ, spores 28-30 x 12-15 μ. Syll. Fung. 24:472.

25. **Prillieuxina tjibodensis** (v. Höhn.) Ryan, n. comb. *Asterinella tjibodensis* v. Höhn. Sitz. K. Akad. Wiss. Wien 129:142. 1920. On leaves. Ascomata 200-300 μ, spores 32 μ long.

26. **Prillieuxina humiriae** (Henn.) Ryan, n. comb. *Asterinella humiriae* Theiss., Broteria 10:121. 1912. *Seynesia humiriae* Henn., Hedw. 44:65. 1905; Syll. Fung. 17:866. On Byronia, Aquifoliaceae: Humiria, Humiriaceae. Ascomata 200-250 μ, asci 40-50 μ, spores 26-32 x 12-15 μ. Mem. Dept. Agr. India 19:75. 1927; Ann. Myc. 10:186. 1912; Öst. Bot. Zeitschr. 63:123. 1913.

27. Prillieuxina amboiensis Syd., Philipp. Jour. Sci. 21:142. 1922. On Cordyline, Liliaceae. Ascomata 200-400 μ, asci 45-60 x 25-40 μ, spores 26-35 x 13-15 μ.

28. Prillieuxina loranthi Syd., Philipp. Jour. Sci. 21:141. 1922. *Asterinella loranthi* Syd., Philipp. Jour. Sci. 8:490. 1913. On Loranthus, Loranthaceae. Ascomata 140-180 μ, asci 45-60 x 32-45 μ, spores 26-34 x 14-16 μ. Syll. Fung. 24:482.

29. **Prillieuxina calotheca** (Pat. and Lag.) Ryan, n. comb. *Asterinella*

calotheca Theiss., Abh. K. K. Zool.-Bot. Ges. 7:117. 1913. *Asterina calotheca* Pat. and Lag. Champ de l'Equateur, Soc. Myc. Fr. 11:221. 1895. On leaves. Ascomata 300-400 μ, asci 80 x 40-50 μ, spores 28-32 x 15-16 μ. Syll. Fung. 14:697; Broteria 12:77. 1914.

30. **Prillieuxina luzonensis** (Syd.) Ryan, n. comb. *Asterinella luzonensis* Syd., Philipp. Jour. Sci. 8:491. 1913. On Shorea, Dipterocarpaceae. Ascomata 150-200 or 800 x 170 μ, asci 50-62 x 40-52 μ, spores 29-33 x 13-15 μ. Syll. Fung. 24:480.

31. **Prillieuxina calami** (Syd.) Ryan, n. comb. *Asterinella calami* Syd., Philipp. Jour. Sci. 9:182. 1914. On Calamus, Palmae. Ascomata 250-420 μ, spores 34-35 x 15-17 μ.

32. **Prillieuxina melastomacearum** Ryan, n. comb. *Asterinella melastomacearum* Ryan, Mycologia 16:189. 1924. On Melastomataceae. Ascomata 120-336 μ, asci 45-48 x 57-72 μ, spores 14-17 x 29-36 μ.

33. **Prillieuxina santiriae** (Syd.) Ryan, n. comb. *Asterinella santiriae* Syd., Ann. Myc. 15:248. 1917. On Santiria, Burseraceae. Ascomata 300-350 or 400 x 250-300 μ, asci 50-75 x 45-60 μ, spores 32-36 x 19-17 μ. Syll. Fung. 24:479.

34. **Prillieuxina clavispora** (Rehm) Ryan, n. comb. *Asterinella clavispora* (Rehm) Theiss., Broteria 12:76. 1914. *Seynesia clavispora* Rehm, Philipp. Jour. Sci. 8:190. 1913. On Alyxia, Apocynaceae. Ascomata to 200 μ, asci 30-60 x 25-30 μ, spores 35-40 μ long. Syll. Fung. 24:428.

35. **Prillieuxina antioquensis** (Toro) Ryan, n. comb. *Asterinella antioquensis* Toro, Jour. Dept. Agr. Puerto Rico 13:232. 1930. On Miconia, Melastomataceae. Ascomata 150-200 μ, asci 47-52 x 27-31 μ, spores 31-40 μ long.

36. **Prillieuxina saginata** (Syd.) Ryan, n. comb. *Asterinella saginata* Syd., Ann. Myc. 15:248. 1917. On Pinanga, Palmae. Ascomata 300-500 μ, asci 60-80 x 40-60 μ, spores 40-44 x 20-23 μ. Syll. Fung. 24:485.

37. **Prillieuxina asterinoides** (Pat.) Ryan, n. comb. *Asterinella asterinoides* Theiss., Öst. Bot. Zeitschr. 62:435. 1912. *Microthyrium asterinoides* Pat., Jour. Bot. 20:150. 1888. *Seynesia asterinoides* Sacc., Syll. Fung. 9:1064. 1891. On Gramineae. Ascomata 300-200 μ, asci 30-36 μ.

38. **Prillieuxina phoradendri** Ryan, n. comb. *Asterinella phoradendri* Ryan (not Theiss.), Mycologia 16:189. 1924. On Phoradendron, Loranthaceae. Ascomata 224-470 μ, asci 41-55 x 62-64 μ, spores 17 x 33-41 μ.

39. **Prillieuxina malabarensis** (Syd.) Ryan, n. comb. *Asterinella malabarensis* (Syd.) Theiss., Broteria 10:106. 1912. *Asterina malabarensis* Syd., Ann. Myc. 9:391. 1911; Syll. Fung. 24:444. On Pothus, Araceae. Ascomata 150-250 x 60-400 μ, asci 45-58 x 25-35 μ, spores 22-26 x 11-13 μ.

40. **Prillieuxina pterocelastri** (Doidge) Ryan, n. comb. *Asterinella*

pterocelastri Doidge, Bothalia 2:198. 1927. On Pterocelastrus, Celastraceae. Ascomata 150-180 μ, asci 30-37 x 20-25 μ, spores 17-20 x 6.5-8 μ.

41. **Prillieuxina mimusopsidis** (Doidge) Ryan, n. comb. *Asterinella mimusopsidis* Doidge, Bothalia 1:80. 1920. On Mimusops, Sapotaceae. Ascomata 240-320 μ, asci 60-70 x 25-35 μ, spores 28-33 x 13-16.5 μ.

44. HALBANIELLA Theissen

Annales Mycologici 14:430. 1916.

Type: *H. javanica* (Rac.) Theiss.

Characters: Mycelium present, non-hyphopodiate, ascomata round, radiate, ostiolate, basal membrane brown, paraphyses present, spores hyaline, 4-5 celled.

Literature: Annales Mycologici 18:79. 1920.

1. Halbaniella javanica (Rac.) Theiss., *l. c. Heterochlamys javanica* Rac., Bol. Acad. Sci. Cracovie 1:381. 1909. On Tetracera, Dilleniaceae; Heterochlamys, Euphorbiaceae. Ascomata 200 μ, asci 14-16 x 68-75 μ, spores 4-6 x 22-28 μ. Syll. Fung. 24:503.

2. Halbaniella portoricensis (Speg.) Seaver and Toro, N. Y. Acad. Sci. 8:212. 1926. *Asteridium portoricense* Speg., Bol. Acad. Nac. Ci. Cordoba 26:348. 1922. *Asteridiellina portoricensis* (Speg.) Seaver and Toro, N. Y. Acad. Sci. 8:212. 1926. On Ocotea, Lauraceae. Ascomata 200-250 μ, asci 75-100 x 15-20 μ, spores 30-35 x 5-6 μ.

3. Halbaniella linnaeae Dearn., Fungi of Manitoba, 1929. On Linnaea, Caprifoliaceae.

45. BEELIA Stevens and Ryan

Bernice P. Bishop Museum Bul. 19:71. 1925.

Type: *B. suttoniae* Stev. and Ryan.

Characters: Free mycelium present, ascomata dimidiate, radiate, ostiolate, orbicular, asci globular, aparaphysate, spores straw-colored, 6-celled.

1. Beelia suttoniae Stev. and Ryan, *l. c.* On Suttonia, Myrsinaceae. Ascomata 90-227 μ, asci 63-72 x 39-45 μ, spores 12-14 x 32-36 μ.

46. KRIEGERIELLA v. Höhnel

Annales Mycologici 16:39. 1918.

Type: *K. mirabilis* v. Höhn.

Characters: Free mycelium present, non-hyphopodiate, aparaphysate, spores brown, several celled.

1. Kriegeriella mirabilis v. Höhn., *l. c.* On Pinus, Pinaceae. Ascomata

100-150 x 100-160 μ, asci 60-80 x 32-40 μ, spores 30-35 x 9-10 μ. Syll. Fung. 24:432.

2. Kriegeriella transiens v. Höhn., *l. c.* On Pinus, Pinaceae. Ascomata 120-240 x 80-100 μ, asci 60-64 x 24-28 μ, spores 24-28 x 7-9 μ. Syll. Fung. 24:432.

47. PLATYPELTELLA Petrak

Annales Mycologici 27:62. 1929.

Type: *P. smilacis* Petr.

Characters: Ascomata dimidiate, basal membrane thin, spores brown, 3-4 celled, paraphysate.

1. Platypeltella smilacis Petr., *l. c.* On Smilax, Liliaceae. Ascomata 180-250 μ, asci 70-100 x 18-25 μ, spores 23-25 x 11-15 μ.

48. YATESULA Sydow

Annales Mycologici 15:237. 1917.

Type: *Y. calami* Syd.

Characters: Ascomata dimidiate, radiate, many hymenia, polyascigerous, paraphysate, spores muriform, reddish.

1. Yatesula calami Syd., *l. c.* On Calamus, Palamae. Asci 35-55 x 9-12 μ, spores 10-13 x 2.5-3.5 μ. Syll. Fung. 24:505.

49. LEMBOSIELLA Saccardo

Sylloge Fungorum 9:1101. 1891.

Type: *L. polyspora* (Pat.) Sacc.

Characters: Like Lembosia but spores 1-celled.

Literature: Mycologisches Centralblatt 3:278. 1913. Theissen says the single species needs restudy.

1. Lembosiella polyspora (Pat.) Sacc., *l. c. Lembosia polyspora* Pat., Bull. Soc. Myc. Fr. 3:125, tab. 10, fig. 4. 1887. On Ochnaceae. Ascomata 0.5-1 mm. long, asci 33-40 x 23-30 μ, aparaphysate, spores 10 x 6-7 μ.

50. LEMBOSIOPSIS Theissen

Annales Mycologici 11:436. 1913.

Type: *L. andromedae* (Tracy and Earle) Theiss.

Characters: Ascomata linear, paraphyses present, no hyphopodia, spores colorless, 2-celled.

1. Lembosiopsis cactorum (Tracy and Earle) Theiss., *l. c. Lembosia*

cactorum Tracy and Earle, Bull. Torr. Bot. Club 27:186. 1901. On Opuntia, Cactaceae. Ascomata 200-250 x 100-150 μ, asci 25-30 x 16-20 μ, spores 12 x 4 μ. Syll. Fung. 17:897.

2. Lembosiopsis brevis (Tracy and Earle) Theiss., *l. c. Lembosia brevis* Tracy and Earle, Bull. Torr. Bot. Club 27:185. 1901. On Opuntia, Cactaceae. Ascomata 100-175 x 70-80 μ, asci 20 x 16 μ, spores 8-10 x 4 μ. Syll. Fung. 17:897.

3. Lembosiopsis andromedae (Tracy and Earle) Theiss., *l. c. Lembosia andromedae* Tracy and Earle, Bull. Torr. Bot. Club 23:207. 1896. On Andromeda, Ericaceae. Ascomata 250-400 x 50-90 μ, spores 8-9 x 2.5-3 μ. Syll. Fung. 14:714.

4. Lembosiopsis oleae (Tracy and Earle) Theiss., *l. c. Lembosia oleae* Tracy and Earle, Bull. Torr. Bot. Club 23:207. 1896. On Olea, Oleaceae. Ascomata 400 x 80-100 μ, spores 12-15 x 4 μ. Syll. Fung. 14:714.

5. Lembosiopsis eucalyptina Petr. and Syd., Ann. Myc. 22:372. 1924. On Eucalyptus, Myrtaceae. Asci 28-42 x 12.5-15 μ, spores 9-12.5 x 4-5 μ.

51. PTYCHOPELTIS Sydow

Annales Mycologici 25:78. 1927.

Type: *P. roupalae* Syd.

Characters: Mycelium superficial, non-hyphopodiate, ascomata dimidiate, radiate, elongate, asci 8-spored, spores 1-septate, hyaline, paraphyses branched.

1. Ptychopeltis rouplae Syd., *l. c.* On Roupala, Proteaceae. Ascomata 350-500 μ or 75 x 300-400 μ, asci 50-100 x 18-24 μ, spores 17-24 μ long.

52. AULOGRAPHUM Libert

Pl. Crypt. Ard. exc. no. 272, Leodii. Cent. II, 1832.

Type: *A. hederae* Lib.

Characters: Mycelium superficial, non-hyphopodiate, ascomata linear, radiate, aparaphysate, spores hyaline, 2-celled. Though the genus is defined as aparaphysate both paraphysate and aparaphysate species have been placed in it and are here listed.

Literature: Ann. Myc. 15:364. 1917; 16:150. 1918; Saccardo, Genera Pyrenomycetes tab. 13, fig. 16; Oudemans, Champ. Pays Bas tab. 13, fig. 16; Rev. Pyren. Batav. tab. 13, fig. 16.

1. Aulographum culmigenum Ellis, Bull. Torr. Bot. Club 8:65. 1881. On Andropogon, Gramineae; Miconia, Melastomataceae. Asci 12-14 x 7-8 μ, spores 5 x 1.8-2 μ. Mycologia 16:189. 1924; N. Y. Acad. Sci. 8:21. 1926; Syll. Fung. 2:729.

2. Aulographum donacis Niessl, Thüm. Contr. Myc. Lusit. no. 511, Instituto rev. scient. e litterar Coimbra 27:16. 1879. On Donax, Marantaceae. Ascomata minute, asci 24-30 x 12-15 μ, spores 5-6 x 2.5-3.5 μ. Syll. Fung. 2:729. 1882.

3. Aulographum confluens Earle, Bull. Torr. Bot. Club 24:365. 1898. On Rubus, Rosaceae. Ascomata 300-800 x 40 μ, asci 25-30 x 4-5 μ, spores 6 x 3 μ. Syll. Fung. 16:659.

4. Aulographum gaylussaciae Rehm, Hedw. 37:296, tab. 10, fig. 3. 1898. On Gaylussacia, Ericaceae. Ascomata 120-180 x 60-70 μ, asci 18 x 11 μ, spores 6 x 3 μ. Syll. Fung. 16:660.

5. Aulographum tropicale Rehm, Hedw., 39:210. 1900. On Pteridophytes. Ascomata 150-300 μ, asci 20 x 8 μ, spores 8 x 3 μ. Syll. Fung. 16:660.

6. Aulographum gracile Ell. and Mart., North Amer. Pyrenomycetes, p. 678, 1892. On Quercus, Fagaceae. Ascomata 60-70 μ, asci 20-25 x 10-12 μ, spores 7-8 x 3-3.5 μ. Syll. Fung. 11:386.

7. Aulographum fimbriatum Sacc., Notae Myc. 23:68. (Acc. Veneto-trent.) 1917. On Daemonoropsis, Palmae. Ascomata 200-300 x 50-60 μ, asci 25-30 x 6.5-7.5 μ, spores 7-8 x 2-3 μ. Syll. Fung. 24:438.

8. Aulographum inconspicuum Rehm, Hedw. 37:297. 1898. On Myrti, Myrtaceae. Ascomata 100 x 20 μ, asci 20 x 15 μ, spores 9 x 3 μ. Syll. Fung. 16:660.

9. Aulographum validivianum Speg., Fungi Chilensis, p. 110, 1910. On Rubus, Rosaceae. Ascomata 250-500 x 40-50 μ, asci 20-25 x 10-12 μ, spores 8-10 x 2.5 μ. Syll. Fung. 22:558.

10. Aulographum quadriae Berk., Grev. 22:15. 1893. On Quadria, Proteaceae. Ascomata 500 μ long, asci clavate, spores 8-10 x 4-5 μ. Syll. Fung. 11:386.

11. Aulographum myrtaceae Theiss., Ann. Myc. 16:187. 1918. On Campomanesia, Myrtaceae. Ascomata 180-240 x 35-50 μ, asci 24-28 x 14-16 μ, spores 8-10 μ. Syll. Fung. 24:437.

12. Aulographum eucalypti Cke. and Mass., Grev. 18:6. 1889. On Eucalyptus, Myrtaceae. Spores 9-10 x 4 μ. Syll. Fung. 9:1102.

13. Aulographum bambusinum Petr., Ann. Myc. 29:221. 1931. On Bambusa, Gramineae. Ascomata 1 mm. x 50-100 μ, asci 20-28 x 10-15 μ, spores 7-10 x 3-3.5 μ.

14. Aulographum donaciola Speg., Ann. Mus. Nac. Buenos Aires 19:441. 1909. On Arundo, Gramineae. Ascomata 150-200 x 75-100 μ, asci 30-35 x 12 μ, spores 10-12 x 5-6 μ. Syll. Fung. 22:558.

15. Aulographum microthyrioideum Rehm, Hedw. 39:209, tab. 11, fig. b. 1904. On leaves. Ascomata 140-300 x 50 μ, asci 20 x 10 μ, spores 10-12 x 3.5 μ. Syll. Fung. 16:660.

16. Aulographum atro-maculans Penz. and Sacc., Malpighia 11:527.

1897. On Palmae. Ascomata 400-500 μ, asci 25-30 x 8-9 μ, spores 12 x 4 μ. Syll. Fung. 14:711; Penz. and Sacc., Icon. F. Jav. tab. 42, fig. 1.

17. Aulographum chusqueae Speg., Fungi Chilensis, p. 109, 1910. On Chusquea, Gramineae. Ascomata 600-1000 x 30-80 μ, asci 25-28 x 14-18 μ, spores 10-12 x 3-4 μ. Syll. Fung. 22:558.

18. Aulographum proteacium Rodway. On Cenarrhenes, Proteaceae. Spores 14 x 6 μ. Syll. Fung. 24:1113. 1926.

19. Aulographum melioloides Cke. and Mass., Grev. 18:6. 1889. On Mammea, Guttiferae. Spores 12-14 x 7-8 μ. Syll. Fung. 9:1101; N. Y. Acad. Sci. 8:21. 1926.

20. Aulographum hederae Lib., Pl. Crypt. Ard., fasc. 3, no. 272, 1834. *Aylographum vagum* Desm., Pl. Crypt. 10; Ann. Sci. Nat., ser. 2, 19:362. 1843. *Hysterium micrographum* De Not., Micr. Ital., Dec. 4, fig. 3. 1842. On Hedera, Araliaceae; Olea, Phillyreae, Oleaceae; Ilicium, Magnoliaceae; Photinia, Rosaceae; Rhododendron, Ericaceae. Asci 30-33 x 13 μ, spores 12-14 μ long. *Var.* photiniae Sacc., Mich. 1:54. 1878. Asci 23-32 x 13 μ, spores 15-17 x 3.5-4 μ. *Var.* oleae Sacc., *l. c.* Asci 30 x 8-9 μ, spores 10-12 x 2.5 μ. Syll. Fung. 2:727; Ann. Epiphyties 16:287. 1930; Jour. Bot. 73:103. 1935.

21. Aulographum arundinariae Cke., Grev. 14:14. 1885. On Arundinaria, Gramineae. Ascomata 1-2 mm. long, spores 13-15 x 5 μ. Syll. Fung. 9:1102.

22. Aulographum blechnicola Rehm, Hedw. 39:210. 1904. On Blechnum, Acanthaceae. Ascomata 180-200 x 60 μ, asci 30 x 20 μ, spores 15 x 5 μ.

23. Aulographum maximum Mass., Bull. Misc. Inform. Roy. Gard. Kew, p. 177, 1899. On Imperata, Gramineae. Ascomata linear, asci 90-100 x 12-14 μ, spores 17-18 x 5-6 μ. Syll. Fung. 16:660.

24. Aulographum pandani Cke., Grev. 5:17. 1876. On Pandanus, Pandanaceae. Ascomata minute, asci ovate or pyriform, spores 20 x 10 μ. Syll. Fung. 2:729.

25. Aulographum cestri Ryan, Mycologia 16:190. 1924. On Cestrum, Solanaceae. Ascomata 26-29 x 96-120 μ, asci 19-26 x 24-31 μ, spores 17-20 x 5-7 μ.

26. Aulographum euryae Syd., Mem. Herb. Boiss. no. 4, p. 5. 1900. On Eurya, Theaceae. Ascomata 125-250 μ, asci 50-60 x 9-11 μ, spores 18-20 x 4-5 μ. Syll. Fung. 16:659.

27. Aulographum juruanum Henn., Fungi Amaz. 3:382. 1904. On Rollinia, Anonaceae. Ascomata 150-180 x 100-140 μ, asci 50-60 x 35-50 μ, spores 25-30 x 10-14 μ. Syll. Fung. 17:895.

28. Aulographum melaspileoides Rehm, Ber. Bayer Bot. Ges. 13:103. 1912. On Vaccinium, Ericaceae. Ascomata 100 x 50 μ, asci 20-30 x 6-8 μ, spores 40 x 12-14 μ. Syll. Fung. 24:437.

29. Aulographum subconfluens Peck, 28 Report State Mus. N. Y. 1876. On stems. Spores 7.5-10 μ long, 1-septate (?).

In the following no measurements were given.

30. Aulographum spilomoides Ces., Myc. Born., Atti Acc. Sci. Napoli 8:14. 1880. On leaves. Ascomata oval to linear. Syll. Fung. 2:731.

31. Aulographum intricatum B. and B., Fungi Ceylon no. 1150, Jour. Linn. Soc. 14, tab. 9, fig. 50. 1875. On Pandanus, Pandanaceae. Syll. Fung. 2:731. 1886.

32. Aulographum ciliatum B. and C., Cuban Fungi no. 730. 1869. On Clusia, Guttiferaceae. Syll. Fung. 2:731.

33. Aulographum canepae De Not., Recl. Pir. p. 492. On Thymus, Labiatae. Asci clavate-obovate, spores ovoid. Syll. Fung. 2:729.

34. Aulographum bromi Berk., Crypt. Anar. p. 62, fig. 9; De Not. Pir. Ister. p. 32. On Bromus, Gramineae. Syll. Fung. 2:730.

53. CIRSOSIA Arnaud

Ann. École Nat. Agr. Montp. 16:123. 1918.

Type: *C. manaosensis* (Henn.) Arn.

Characters: Hyphopodia intercalary, paraphyses present, spores dark, 2-celled, ascomata linear.

1. Cirsosia manaosensis (Henn.) Arn. *l. c. Lembosia manaosensis* Henn., Hedw. 43:265. 1904. Syll. Fung. 17:898. On Malpighiaceae. Ascomata 300-400 x 200-250 μ, asci 55-65 x 45-50 μ, spores 25-35 x 13-17 μ. Syll. Fung. 24:497.

54. CIRSOSIELLA Arnaud

Ann. École Nat. Agr. Montp. 16:127. 1918.

Type: *C. transversalis* (Syd.) Arn.

Characters: Like Cirsosia, but aparaphysate.

1. Cirsosiella transversalis (Syd.) Arn., *l. c. Morenoella transversalis* Theiss., Ann. Myc. 11:457. 1913. *Asterina transversalis* Syd., Leaflet Philipp. Bot. 6:1542. 1911. On Daemonorops and Calamus, Palmae. Ascomata 500-900 x 180-250 μ, asci 60-80 x 50-60 μ, spores 40-50 x 18-22 μ.

2. Cirsosiella globulifera (Pat.) Arn., *l. c. Lembosia globulifera* Theiss., Jour. Bot. 4:65, fig. 9. 1890. Syll. Fung. 9:1108. *Asterina globulifera* Pat., Bul. Soc. Myc. Fr. 14:155. 1898. Syll. Fung. 16:648. On Calamus, Palmae. Ascomata 900-1000 x 500-600 μ, asci 40-45 μ, spores 30 x 10-13 μ. Ann. Myc. 11:441. 1913.

3. Cirsosiella irregularis (Syd.) Arn. *l. c. Morenoella irregularis*

Theiss., Ann. Myc. 11:458. 1913. *Asterina irregularis* Syd., Leaflet Philipp. Bot. 6:1540. 1911. *Halbanina irregularis* Arn., Ann. École Nat. Agr. Montp. 16:163. 1918. On Vatica, Dipterocarpaceae. Ascomata 1100 x 200-300 μ, asci 60-80 x 50-60 μ, spores 32-40 x 15-16 μ.

55. LEMBOSIA Léveillé

Annales Sciences Naturelles, ser. 3, 3:58. 1845.

Type: *L. tenella* Lév.

Characters: Mycelium present, hyphopodiate, ascomata radiate, linear, paraphysate, spores 2-celled dark.

Literature: Ann. Myc. 11:425. 1913.

1. Lembosia morototoni Petr. and Cif., Ann. Myc. 30:195. 1932. On Didymopana, Araliaceae. Ascomata 180-450 μ, asci 28-35 x 14-20 μ, spores 5-7 x 1.5-2 μ.

2. Lembosia glonioidea Sacc., Bull. Orto Bot. Napoli 6:53. 1921. On Hevea, Euphorbiaceae. Ascomata 330-600 x 90 μ, asci 45-50 x 6-6.5 μ, spores 8-9 x 3 μ. Syll. Fung. 24:492.

3. Lembosia microtheca Theiss., Beih. Bot. Centralbl. 27:44. 1910. On Goeppertia, Gentianaceae; Cryptocarya, Lauraceae; Marantaceae. Ascomata 180-300 x 70-90 μ, asci 25-30 x 9-11 μ, spores 9-10 x 2.5-3 μ. Syll. Fung. 22:563.

4. **Lembosia cifferrii** (Petr. and Cif.) Ryan n. name. On Ocotea, Lauraceae. Ascomata 250-750 x 100-180 μ, asci 19-23 x 10-13 μ, spores small. This fungus was placed by the authors in *Lembosia microspora* Chard. The original description says that *L. microspora* is non-hyphopodiate, so it has since been placed in the genus Echidnodes. Petrak and Cifferri say, "Diese Art ist durch die meist gegenständigen, stumpf und verlängert zylindrisch-kegelformigen Hyphopodien gut characterisiert und gleich kenntlich." Clearly the fungus is not that of Chardon. Therefore we have adopted the name *L. cifferrii* for this fungus. Ann. Myc. 30:195. 1932.

5. Lembosia similis (Bres.) Theiss., Ann. Myc. 13:435. 1915. *Asterina similis* Theiss., Ann. Myc. 11:435. 1913. *Lembosia similis* Bres., in Rick. Fungi Austro-Amer. no. 60. On Myrtaceae. Ascomata 180-300 or 450 x 200 μ, asci 32-47 x 10-14 μ, spores 10 x 4 μ.

6. Lembosia maculare (B. and B.) Theiss., Ber. Deutsch. Botan. Ges. 35:250. 1917. *Aulographum maculare* B. and B., Ann. Mag. Nat. Hist. 8:451. 1861. On Bromeliaceae. Spores 12-12.5 x 3 μ. Syll. Fung. 2:730.

7. Lembosia luzulae (Lib.) v. Höhn., Ann. Myc. 15:366. 1917. *Aulographum luzulae* De Not., Pir. Istr. p. 30; Duby, Hyst. p. 38, tab. 3,

fig. 17. On Luzula, Juncaceae. Ascomata 150-200 x 50-80 μ, asci 20-24 x 12-15 μ, spores 9-12 x 5-5.5 μ. Syll. Fung. 2:728.

8. Lembosia iliciicola Tracy and Earle, Bull. Torr. Bot. Club 21:177. 1895. On Ilicium, Magnoliaceae. Ascomata 200-350 x 80-100 μ, asci 3-5 x 14-18 μ, spores hyaline then sub-colored, 10-13 x 5 μ. Syll. Fung. 14:712.

9. Lembosia eucalypti Stev. and Dixon, Bernice P. Bishop Mus. Bul. 19:75. 1925. On Eucalyptus, Myrtaceae. Asci 34 x 4-6 μ, spores 11-14 x 2-4 μ, hyaline—possibly immature.

10. Lembosia microcarpa Syd., Ann. Myc. 15:248. 1917. On Calamus, Palmae. Ascomata 200-400 x 50-100 μ, asci 23-27 x 16-20 μ, spores 11-14 x 7 μ. Syll. Fung. 24:494.

11. Lembosia modesta Theiss., Ann. Myc. 11:511. 1913. On Araucaria, Araucariaceae. Ascomata 170-250 x 60-90 μ, asci 30-40 x 20-24 μ, spores 12-14 x 7 μ. Syll. Fung. 24:492.

12. Lembosia juncinum (Lib.) v. Höhn., Ann. Myc. 15:366. 1917. *Aulographum juncinum* Lib., De Not. Pir. Istr. p. 31, tab. 3, fig. 19; Duby, Hyst. p. 39, tab. 2, fig. 20. On Juncus, Juncaceae. Ascomata 80-500 x 120 μ, asci 28 x 12-14 μ, spores 14 x 5 μ. Syll. Fung. 2:730; Ann. Epiphyties 16:286. 1921.

13. Lembosia inconspicua Syd., Philipp. Jour. Sci. 9:183. 1914. On Guioa, Sapindaceae. Ascomata 150-350 x 100-150 μ, asci 26-32 x 14-20 μ, spores 11-15 x 3.5-5 μ. Syll. Fung. 24:496.

14. Lembosia rolfsii Horne, Bull. Torr. Bot. Club 31:69. 1905. On Vanilla, Orchidaceae. Ascomata 350-1000 x 160 μ, asci 20-40 x 8-15 μ, spores 10-16 x 4-5 μ. Syll. Fung. 22:563.

15. Lembosia decolorans Syd., Ann. Myc. 12:561. 1914. On Quercus, Fagaceae. Ascomata 300-450 x 140-170 μ, asci 40-55 x 16-22 μ, spores 13-16 x 5.5-7 μ. Syll. Fung. 24:492.

16. Lembosia natalensis Doidge, Trans. Roy. Soc. So. Afr. 8:268. 1920. On Myrtaceae ? Ascomata 300-500 x 140-160 μ, asci 30-34 x 20-24 μ, spores 15-16 x 6-7 μ.

17. Lembosia opaca Speg., Ann. Myc. 11:438. 1913. On Rapanea, Myrsinaceae. Ascomata 250-340 x 140-170 μ, asci 32-40 x 17-22 μ, spores hyaline, later becoming brown, 16 x 5.5 μ, paraphyses typical. Theissen (85) p. 438, says, "mit sparlichen kurz zylindrischen Hyphopodia, 8 x 4-5 μ, besetz." *Lembosia nobilis* Speg., Fungi Guar. nonn. no. 129, p. 45. *Lembosia lophiostomacea* Starb., Ark. f. Bot. 2:8, fig. 16-18. 1904. Syll. Fung. 9:1105; 11:387; 17:900; Hedw. 37:tab. 9, fig. 8, 1898; Ann. École Nat. Agr. Montp. 16:135. 1918.

18. Lembosia patouillardi Sacc. and Syd., Syll. Fung. 14:715. *Lembosia philodendri* Henn., Hedw. 43:89. 1904. Ann. Myc. 11:448. 1913. *Lembosia orbicularis* Pat. (not Wint.), Jour. Bot. 27:168. 1889. Syll.

Fung. 9:1108. On Dracaena, Liliaceae; Psidium, Myrtaceae; Philodendron, Araceae; Coccoloba, Polygonaceae. Ascomata 0.5-0.9 x 0.17-0.2 mm., spores 16-18 x 6-7 μ. N. Y. Acad. Sci. 8:23. 1926; Mycologia 16:190. 1924; Ann. Myc. 25:78. 1927.

19. Lembosia incisa (Syd.) Theiss., Ann. Myc. 11:443. 1913. *Asterina incisa* Syd., Ann. Myc. 9:390. 1911. On Webera, Melastomataceae. Ascomata 300-500 μ long, asci 32-44 x 16-21 μ, spores 13-17 x 6-8 μ. Syll. Fung. 24:460.

20. Lembosia vriesiae (Rehm) v. Höhn., Ann. Myc. 15:371. 1917. *Micropeltis vriesiae* Rehm, Ann. Myc. 5:531. 1907. *Aulographum maculare* B. and B. var. *stellulata* Rehm, Hedw. 27:297, tab. 9, fig. 5. 1898. On Bromeliaceae. Ascomata 1 mm. x 60 μ, asci 40-50 x 22-24 μ, spores 22-24 x 7-9 μ.

21. Lembosia tenella Lév., Ann. Sci. Nat. ser. 3 Bot. 3:58. 1845. *Lembosia coccolobae* Earle, N. Y. Bot. Gard. Bul. 3:301. 1903. On Coccoloba, Polygonaceae; Eugenia Myrtaceae. Ascomata 200-250 x 160-180 μ, or 300-350 μ long, or T-formed, 450-500 x 120-150 μ, asci 40 x 25-30 μ, spores 17-22 x 5-6 μ. It has been suggested by Petrak and Ciferri (37) p. 165, that since the original specimen of *Lembosia tenella* Lév. has been destroyed *L. coccolobae* Earle be kept as the type for the genus. We suggest that the specimens from the Nicaragua collection (Ann. Myc. 11:426, tab. 20, fig. 25. 1913) be used as type, as they are in good condition. Syll. Fung. 2:742, 22:562; Mycologia 13:282. 1912; 16:190. 1924; Ann. Myc. 28:384. 1930.

22. Lembosia longissima Rac., Parasit. Algen und Pilze Javas 3:29. 1900. On Neprolepis, Pteridophyta. Ascomata 1-4 mm. x 30-40 μ, asci 38-44 x 17 μ, spores 15-17 x 5-6 μ. This is a questionable Lembosia. The original description makes no mention of hyphopodia. Syll. Fung. 16:684.

23. Lembosia hormosiana Sacc., Bull. Orto Bot. Nap. 6:52. 1921. On Hormosia. Ascomata 235-400 x 90 μ, asci 35-40 x 18-20 μ, spores 17-16 x 6.5-5 μ. Syll. Fung. 24:493.

24. Lembosia congesta Wint., Flora 42:9. 1884. Syll. Fung. 9:1105. On Carissa, Apocynaceae. Ascomata 500-800 x 180-220 μ, asci 60-70 x 21-26 μ, spores 17-18 x 7-9 μ. Questionable species. The original description does not give hyphopodia. Trans. Roy. Soc. So. Afr. 8:268. 1920.

25. **Lembosia sophorae** (Rehm) Ryan, n. comb. *Lembosia graphoides* S. and B. var. *sophorae* Rehm, Ann. Myc. 6:486. 1908. Exsiccati: Rehm, Ascom. p. 4168, no. 1780. On Sophora, Leguminosae. Ascomata 160-300 x 120 μ, asci 40 x 22-26 μ, spores 16-18 x 5-7 μ. Ann. Myc. 11:450. 1913.

26. Lembosia sepotae Ryan, Mycologia 16:191. 1924. On Calophyllum, Sepotaceae. Ascomata 224-616 μ, asci 17-27 x 29-34 μ, spores 7-9 x 14-19 μ. N. Y. Acad. Sci. 8:23. 1926.

27. Lembosia philippinensis Syd., Ann. Myc. 15:249. 1917. On

Randia, Rubiaceae. Ascomata 250-600 x 150-190 μ, asci 35-46 x 20-24 μ, spores 17-19 x 7-6 μ. Syll. Fung. 24:496.

28. Lembosia piriensis Doidge, Bothalia 1:78. 1920. On Trichocladus, Hamamelidaceae. Ascomata 300-400 x 190-240 μ, asci 37-40 x 20-24 μ, spores 17-20 x 6-7 μ.

29. Lembosia poasensis Syd., Ann. Myc. 23:397. 1925. On Chamaedorea, Palmae. Ascomata 300-1000 x 100-180 μ, asci 36-48 x 16-20 μ, spores 17-20 μ.

30. Lembosia radiata Doidge, Trans. Roy. Soc. So. Afr. 8:269. 1920. On Leguminosae. Ascomata 240-300 x 60-160 μ, asci 42-45 x 18-23 μ, spores 17-20 x 8-10 μ.

31. Lembosia brenesii Petr., Ann. Myc. 27:60. 1929. On Mollinedia, Monimiaceae. Ascomata 300-600 x 120-230 μ, asci 35-45 x 17-23 μ, spores 18-20 x 7-8 μ.

32. Lembosia pavettae Theiss., Ann. Myc. 11:429. 1913. On Pavetta, Rubiaceae. Ascomata to 700 μ long, asci 65 x 10-12 μ, spores 18-21 x 6-8 μ. *Var.* luzonensis Syd., Ann. Myc. 15:249. 1917. Ascomata 300-600 x 180-250 μ, asci 35-50 x 20-25 μ, spores 18-21 x 7-9 μ. Syll. Fung. 24:495.

33. Lembosia rapaneae Ryan, Mycologia 16:191. 1924. On Rapanea, Myrsinaceae. Ascomata 190-336 x 616-672 μ, asci 29-36 x 12 μ, spores 21 x 7 μ.

34. Lembosia rubiacearum Arn., Ann. École Nat. Agr. Montp. 16:61. 1918. On Rubiaceae. Spores 21.5 x 14.5 μ. Syll. Fung. 24:496.

35. Lembosia anorarum Petr. and Cif., Ann. Myc. 30:193. 1932. On Anona, Anonaceae, Ascomata 200-500 x 80-120 μ, asci 38-46 x 25-35 μ, spores 17-22 x 9-10 μ.

36. Lembosia pittierii Syd., Ann. Myc. 28:146. 1930. On Sickingia, Rubiaceae. Ascomata 180-750 x 120-200 μ, asci 40-50 x 22-30 μ, spores 18.5-23 x 8-10 μ.

37. Lembosia eugeniae Rehm, Philipp. Jour. Sci. 8:261. 1913. On Eugenia, Myrtaceae. Ascomata 150-200 x 100 μ, asci 60 x 30 μ, spores 20-22 x 8-9 μ. Syll. Fung. 24-494; Ann. Myc. 20:72. 1922.

38. Lembosia miconiicola Arn., Ann. École Nat. Agr. Montp. 16:131, tab. 17, fig. 20. 1918. *Lembosia melastomatum* Mont. var. *microspora* Theiss., Ann. Myc. 11:438. 1913. On Miconia, Melastomatacea. Spores 22 x 11.5 μ. Syll. Fung. 24:494; Ann. Myc. 30:195. 1932.

39. Lembosia memecyli Syd., Ann. Myc. 29:246. 1931. *Morenoella memecyli* Syd., Philipp. Jour. Sci. 9:183. 1914. On Memecylon, Melastomataceae. Spores 20-23 x 8-10 μ.

40. Lembosia portoricensis Ryan, Mycologia 16:190. 1924. On Coccoloba, Polygonaceae. Ascomata 279-336 μ long, asci 34-39 x 19-24 μ, spores 17-24 x 7 μ.

41. Lembosia warscewicziae Henn., Hedw. 43:264. 1904. On

Warscewiczia, Orchidaceae. Ascomata 400-750 x 200-300 μ, asci 50-60 x 25-30 μ, spores 20-26 x 10-13 μ. Syll. Fung. 17:899.

42. Lembosia parmularioides Henn., Hedw. 43:265. 1904; Ule, Herb. Brasil. 2948, Berliner Mus.; Kew, Pasz. tab. 20, fig. 9-11. On Apocynaceae. Ascomata 250-300 μ, asci 60-80 x 20-24 μ. Doubtful species, the original description does not give hyphopodia. Ann. Myc. 11:449. 1913; Syll. Fung. 17:900.

43. Lembosia nervisequa Syd., Philipp. Jour. Sci. 9:183. 1914. On Litsea, Lauraceae. Ascomata 300-550 x 150-180 μ, asci 50-58 x 40-46 μ, spores 23-26 x 12-13 μ. Syll. Fung. 24:493.

44. Lembosia melastomatum Mont., Ann. Sci. Nat. ser. 4, 5:373. 1856. Ann. Myc. 11:438. 1913. *Lembosia diffusa* Wint., Hedw. 24:30. 1885. On Miconia, Melastomataceae; Posoqueria, Rubiaceae. Ascomata 700 x 250 μ, asci 70-96 x 42-52 μ, spores 35-40 x 16-20 μ. *Var.* puttemansii Arn. Ann. École Nat. Agr. Montp. 16:133. 1918. On Melastomataceae. Spores 27.5 x 13.5 μ. *Var.* maublancii Arn., Syll. Fung. 24:494. Ascomata and asci of *L. diffusa* are slightly smaller than those of *L. melastomataceae.* Syll. Fung. 2:742, 9:1106, 17:899; Mycologia 13:272. 1921; N. Y. Acad. Sci. 8:23. 1926; Rev. Myc. 7:1885; Ann. Myc. 28:385. 1930.

45. Lembosia rolliniae Rehm, in herb., Ann. Myc. 11:442. 1913. On Rollinia, Anonaceae; Tamonea, Verbenaceae; Miconia, Melastomataceae. Ascomata 0.3-0.35 x 0.1 mm., asci 50-60 x 30 μ, spores 24-26 x 10-11 μ. Syll. Fung. 24:491; N. Y. Acad. Sci. 8:23. 1926; Mycologia 16:190. 1924.

46. Lembosia pandani (Rostr.) Theiss., Ann. Myc. 11:457. 1913. *Asterina pandani* Rostr., Bot. Tid. 24:211. 1902. *Lembosia pandani* Rehm, Leaflet Philipp. Bot. 8:2932. 1916. On Pandanus, Pandanaceae. Ascomata 350-850 μ, asci 28-30 x 24-26 μ, spores 20-22 x 9-10 μ. Syll. Fung. 24:495; 17:881.

47. Lembosia saccardoana Sacc., Ann. Bot. 4:275, tab. 10, fig. 7. On Sanseviera, Liliaceae. Ascomata 150-200 μ, asci 70 x 42 μ, spores 28 x 14 μ. Syll. Fung. 22:563.

48. Lembosia domingensis Petr. and Cif., Ann. Myc. 28:385. 1930. On Exostema, Rubiaceae; Maytenus, Celatraceae. Ascomata 300-600 or 800 x 150-250 μ, asci 40-52 x 28-35 μ, spores 25-33 x 11-15 μ.

49. Lembosia diplothemii Henn., Hedw. 43:89. 1904. On Diplothemium, Palmae. Ascomata 100 μ long, asci 35 x 27 μ, spores 28-35 x 7-8 μ. Syll. Fung. 17:901.

50. Lembosia cassupae Henn., Hedw. 44:67. 1905. On Cassupa, Rubiaceae. Ascomata 450 x 250 or 600 x 300 or 1000 x 200 μ, asci 70 x 45-100 μ, spores 32-37 x 15-18 μ.

51. Lembosia catervariae Mont., Syll. Crypt. no. 651 and Guy no. 460. On Miconia, Melastomataceae. Ascomata 500-700 μ, asci 70-100 x 50-80 μ, spores 33-38 x 16-19 μ. Syll. Fung. 2:742; Ann. Myc. 11:428. 1913.

52. Lembosia robinsonii Syd., Philipp. Jour. Sci. 21:143. 1922. On Eugenia, Myrtaceae. Ascomata 300-500 or 1.25 mm. x 200-300 μ, asci 70-90 x 35-55 μ, spores 34-38 x 17-19 μ.

53. Lembosia crustacea (Cke.) Theiss., Ann. Myc. 11:432. 1913. *Asterina crustacea* Cke., Grev. 14:13. 1885. *Lembosia congregata* Syd., Ann. Myc. 8:40. 1910. *Lembosia breviuscula* (P. and S.) Syd., Syll. Fung. 17:899. *Lembosia diffusa* Wint. var. *breviuscula* P. and S., Malpighia 11:527. 1897. *Morenoella breviuscula* (P. and S.) v. Höhn., Frag. zur Myk. 10, no. 445. *Morenoella gedeana* Rac., Parasit. Algen und Pilz Javas 3:28. 1900. Syll. Fung. 14:654. 1899. On Rhododendron, Ericaceae. Asci 130 x 25 μ, spores 42-36 x 20-17 μ. Syll. Fung. 9:1106; 14:715; 16:654; 22:561; 9:380; Ann. Myc. 15:432. 1917; 28:246. 1930.

54. Lembosia durbana van der Byl, So. Afr. Jour. Sci. 26:319. 1929. On Chaetachma, a lichen. Ascomata 200-340 x 140-120 μ, asci 24-54 x 18-24 μ, spores 16-26 x 6-8 μ.

55. Lembosia sclerolobii Henn., Hedw. 43:265. 1904. On Sclerolobium, Leguminosae; Miconia, Melastomataceae. Ascomata 500 x 180 μ, asci 60-70 x 40 μ, spores 25-28 x 9-11 μ. Syll. Fung. 17:899; N. Y. Acad. Sci. 8:1926; Mycologia 16:190. 1924.

56. Lembosia pinorum (Desm.) v. Höhn., Ber. Deutsch. Botan. Ges. 35:250. 1917. *Aulographum pinorum* Desm., Ann. Sci. Nat. ser. 2, 10:314; Duby Hyst. p. 37; De Notaris Pro. Ister. tab. 3, fig. 18. On Pinus, Pinaceae. Syll. Fung. 2:728. 1886.

56. MORENOELLA Spegazzini

Fungi Guar. I, Anal. Soc. Ci. Argentina 16:268. 1883.

Type: *M. ampulluligera* Speg.

Characters: Like Lembosia but aparaphysate.

Literature: Ann. Myc. 11:425. 1913.

Synonymous genus: *Halbanina* Arn., Ann. École Nat. Agr. Montp. 16:163. 1918.

Arnaud states that *Halbanina* differs from *Halbania* "par les ascopores pourvues d'une seule cloison. Quelques caractères du type étant encore mal connus, ce genre est indique ici a titre provisoire." We consider it as Morenoella.

1. Morenoella psychotriae Ryan, Mycologia 16:194. 1924. Host unknown. Ascomata 84-120 x 192-276 μ, spores 2 x 9-10 μ.

2. Morenoella cliftoniae (Tracy and Earle) Theiss., Ann. Myc., 11:452. 1913. *Lembosia cliftoniae* Tracy and Earle, Bull. Torr. Bot. Club 22:208. 1896. On Cliftonia, Cryillaceae. Ascomata 100-150 x 40-70 μ, asci 20-25 x 10-15 μ, spores 9-11 x 4-5 μ. Syll. Fung. 14:713.

3. Morenoella cestri Ryan, Mycologia 16:192. 1924. Host unknown. Ascomata 302-448 x 56-89 μ, asci 12-26 x 5-12 μ, spores 9-12 x 3-5 μ.

4. Morenoella ampulluligera Speg., F. Guar. I, no. 303, Anal. Soc. Ci. Argentina, Buenos Aires 17:1883. *Lembosia ampulluligera* Speg., F. Puigg. no. 371, *ibid.* 17:1883. On Lauraceae. *Var.* meizospora Speg., F. Puigg. I, no. 371, *ibid.* 17:1883. Ascomata 150-200 x 100-120 μ, asci 30-35 x 15-18 μ, spores 12-13 x 5 μ. Syll. Fung. 9:1095. 1891.

5. Morenoella fagraeae Syd., Ann. Myc. 15:251. 1917. On Fagraea, Loganiaceae. Ascomata 400-800 x 100-150 μ, asci 28-35 x 13-16 μ, spores 12-14 x 4.5-5.5 μ. Syll. Fung. 24:501.

6. Morenoella phillipsii Doidge, Bothalia 1:205. 1927. On Ocotea, Lauraceae. Ascomata 240-600 x 90-160 μ, asci 26-33.5 x 18-20 μ, spores 13.5-15 x 5-6.3 μ.

7. Morenoella oxyanthae Doidge, Trans. Roy. Soc. So. Afr. 8:270. 1920. On Oxyanthus, Grumilea, Rubiaceae. Ascomata 400-600 x 250-300 μ, asci 23-30 x 13-16 x 3.5-5 μ.

8. Morenoella calami Rac., Parasit. Algen und Pilze Javas 3:28. 1900. On Calamus, Palmae; Epidendrum, Orchidaceae; Crescentia, Bignoniaceae. Ascomata 500-1500 x 120-150 μ, asci 40 x 14 μ, spores 16 x 6-7 μ. Syll. Fung. 16:654; Mycologia 16:192. 1924; N. Y. Acad. Sci. 8:23. 1926.

9. Morenoella portoricensis Speg., Bol. Acad. Nac. Ci. Cordoba 26:343. 1922. On Ocotea, Lauraceae. Ascomata 150-500 x 75-100 μ, asci 20-25 x 18-20 μ, spores 16-18 x 4-5.5 μ. Mycologia 16:193. 1924; N. Y. Acad. Sci. 8:24. 1926.

10. Morenoella samarensis Syd., Ann. Myc. 15:250. 1917. On Stephania, Memispermaceae. Ascomata 250-800 x 150-200 μ, asci 38-44 x 20-24 μ, spores 16-18 x 6-7 μ. Hyphopodia few, aparaphysate. Syll. Fung. 24:501.

11. Morenoella (?) quercina (Ell. and Mart.) Theiss., Ann. Myc. 11:448. 1913. *Aulographum quercinum* Ell. and Mart., Amer. Nat. 17:1283. 1883. Syll. Fung. 17:895. *Lembosia quercina* Tracy and Earle, Miss. Fungi p. 105, 1895. Syll. Fung. 14:714. On Quercus, Fagaceae. Ascomata 320 x 100 μ, asci 22 x 12-14 μ, spores 15-20 x 8 μ.

12. Morenoella dothideoides (Ell. and Ev.) v. Höhn., Frag. Myc. 8:357. 1909. *Maurothella (?) doithideoides* Arn., Ann. École Nat. Agr. Montp. 16:126. 1918. *Asteridium dothideoides* Ell. and Ev., Bull. Torr. Bot. Club 22:436. 1895. According to v. Höhnel this is a typical *Morenoella.* An example at Cornell University (not the original) is a "Dothid" of the type *Polystomella.* Ann. Myc. 11:452. 1913. On Miconia, Melastomataceae; Andromeda, Ericaceae. Ascomata 300 μ in diameter or 500 x 200 μ, asci 30-40 x 18-21 μ, spores 20 x 7-8 μ. *Var.* impetiolaris Ryan, Mycologia 16:192. 1924. Syll. Fung. 14:700; N. Y. Acad. Sci. 8:24. 1926.

13. Morenoella aniscocarpa Syd., Ann. Myc. 12:559. 1914. On Hopea, Dipterocarpaceae. Ascomata at first round, 350-500 μ, later 500-1000 x 250-350 μ, asci 65-90 x 50-70 μ, spores 12-16 x 16-20 μ, hyphopodia nodulose. Syll. Fung. 24:499.

14. Morenoella miconiae Ryan, Mycologia 16:191. 1924. On Miconia, Melastomataceae. Ascomata 145-168 x 235-425 μ, asci 21-31 x 36-46 μ, spores 9-12 x 20-21 μ.

15. Morenoella myrtacearum (Speg.) Theiss., Ann. Myc. 11:430. 1913. *Lembosia myrtacearum* Speg., Fungi Puigg. no 374; Bol. Acad. Nac. Ci. Cordoba 11:577. 1889. Syll. Fung. 9:1095. 1891. *Morenoella mollinediae* Arn., Ann. École Nat. Agr. Montp. 16:137. 1918. On Eugenia, Myrtaceae; Mollinedia, Monimiaceae. Ascomata 400 x 100 or 700 μ long, asci 28-35 μ or 30-36 or 24 μ broad, spores 18-22 x 6-8 μ. Syll. Fung. 24:501; Ann. Myc. 11:1913.

16. Morenoella laguensis Syd., Ann. Myc. 12:560. 1914. On Neolitsea, Lauraceae. Ascomata 250-500 x 120-200 μ, asci 40-50 x 28-35 μ, spores 20-23 x 10-11 μ. Syll. Fung. 24:500.

17. Morenoella decalvans (Pat.) Theiss., Ann. Myc. 11:452. 1913. *Lembosia decalvans* Pat., Ann. Jard. Bot. Buitenzorg, p. 122. 1897. On Pachygone, Memispermaceae. Ascomata 160-300 x 100-150 μ, asci 40-50 x 23-28 μ, spores 20-23 x 8-10 μ. Syll. Fung. 14:712; Mycologia 16:192. 1924; N. Y. Acad. Sci. 8:24. 1926. *Var.* langeriae Ryan, Mycologia 16:193. 1924. On Langeria, Rubiaceae. Ascomata 190-257 x 316-347 μ, spores 21-24 x 5 μ. *Var.* rondeletiae Ryan, Mycologia 16:192. 1924. On Rondeletia, Rubiaceae. Ascomata 210-640 μ, long, asci 25-30 μ broad. *Var.* stigmatophylli Ryan, Mycologia 16:193. 1924. On Stigmatophyllum, Malpighiaceae.

18. Morenoella langeriae Ryan, Mycologia 16:192. 1924. On Langeria, Rubiaceae. Ascomata 414 x 68 μ, asci 43-48 x 36-41 μ, spores 24 x 12 μ.

19. Morenoella whetzelii Toro, Mycologia 17:134. 1925. On Elsota, Polygalaceae; Securigera, Leguminosae. Ascomata 150-350 x 124-140 μ, asci 39-45 x 27-31 μ, spores 21-24 x 7-9 μ. N. Y. Acad. Sci. 8:24. 1926.

20. Morenoella tenuis Syd., Ann. Myc. 12:560. 1914. On Eugenia, Myrtaceae. Ascomata 400-800 x 150-200 μ, asci 35-40 x 30-35 μ, spores 23-26 x 10-12 μ. Syll. Fung. 24:502.

21. Morenoella pothoidei (Rehm) Theiss., Ann. Myc. 11:442. 1913. *Lembosia pothoidei* Rehm, Philipp. Jour. Sci. 8:191. 1913. On Pothoidium, Araceae. Ascomata 400-500 x 300 μ, asci 80 x 40 μ, spores 25-27 x 12 μ. Syll. Fung. 24:491; Broteria 12:77. 1914. *Var.* laevigatae Ryan, Mycologia 16:193. 1924. On Miconia, Melastomataceae. Ascomata 336-493 x 145-201 μ, asci 53-73 x 36 μ, spores 24-29 x 12-14 μ.

22. Morenoella puiggarii (Speg.) Theiss., Ann. Myc. 11:442. 1913. *Lembosia puiggarii* Speg., F. Puigg. no. 375, Bol. Acad. Nac. Ci. Cordoba

11:578. 1889. On leaves. Ascomata 150-300 x 80-150 μ, asci 30-40 x 20-35 μ, spores 24-28 x 8-9 μ. Syll. Fung. 9:1106.

23. Morenoella miconiicola Ryan, Mycologia 16:191. 1924. On Miconia, Melastomataceae. Ascomata 331-448 x 470-860 μ, asci 33-43 x 69-84 μ, spores 12 x 24-29 μ.

24. Morenoella melastomacearum Ryan, Mycologia 16:194. 1924. On Melastomataceae. Ascomata 336-784 μ long, asci 41-48 x 55-72 μ, spores 12 x 26-29 μ.

25. Morenoella giganteae Ryan, Mycologia 16:194. 1924. On Miconia, Melastomataceae. Ascomata 784-1064 x 302-504 μ, asci 84-96 x 33-41 μ, spores 26-29 x 14 μ.

26. Morenoella beilschmiediae Yates, Philipp. Jour. Sci. 12:373. 1917. On Beilschmiedia, Lauraceae. Ascomata 400-600 x 100-150 μ, asci 36-45 x 25-30 μ, spores 25-30 x 6-7 μ. Syll. Fung. 24:500.

27. **Morenoella byroniae** (Arn.) Stev., n. comb. *Halbanina byroniae* Arn., Ann Crypt. Exot. 4:91. 1931. On Bryonia, Cucurbitaceae. Spores 26-32 x 12-15 μ.

28. Morenoella anisopterae Syd., Ann. Myc. 12:560. 1914. On Anisoptera, Dipterocarpaceae. Ascomata 500-800 x 350-450 μ, asci 45-65 x 35-50 μ, spores 28-36 x 17-20 μ, hyphopodia nodulose. Syll. Fung. 24:499.

29. Morenoella euopla Syd., Ann. Myc. 26:97. 1928. On Shorea, Dipterocarpaceae. Ascomata 150-250 μ, asci 55-75 x 35-50 μ, spores 35-40 x 16-20 μ.

30. Morenoella shoreae Ryan, Mem. Dept. Agr. India 15:104. 1927. On Shorea, Dipterocarpaceae. Ascomata 247-544 x 330-346 μ, asci 48-52 x 40 μ, spores 36-40 x 20 μ.

31. Morenoella erythrophlaei (Henn.) Theiss., Ann. Myc. 11:446. 1913. *Lembosia erythroplaei* Henn., Engl. Bot. Jahrb. 38:117. 1905. On Erythrophaleum, Leguminosae. Ascomata 300-500 x 200-250 μ, asci 50-70 x 40-50 μ, spores 35-42 x 17-19 μ. Syll. Fung. 22:561.

32. Morenoella bakeri Syd., Ann. Myc. 15:250. 1917. On Shorea, Dipterocarpaceae. Ascomata 400-700 x 200-320 μ, asci 60-70 x 45-64 μ, spores 34-42 x 18-42 μ. Syll. Fung. 24:500.

33. Morenoella macrospora Sacc. and Paol., Myc. Malac., Atti R. Istit., Venet. Sci., Lett. ed Arti, 6 ser., 6:387. 1888. *Lembosia macrospora* Sacc. and Paol., Myc. Malac. *ibid.* On leaves. Ascomata 500-1000 μ long, asci 70 μ, spores 45 x 21 μ. Syll. Fung. 9:1096. 1891. Apparently the same fungus.

34. Morenoella lophopetali (Rehm) Theiss., Ann. Myc. 14:269. 1916. *Asterina lophopetali* Rehm, Leaflet Philipp. Bot. 6:2228. 1914. On Lophopetalum, Celastraceae. Ascomata 500 x 140-160 μ, asci 50-60 x 25-30 μ, spores 28-30 x 13-15 μ. Syll. Fung. 24:447.

57. ECHIDNODES Theissen and Sydow

Annales Mycologici 15:422. 1917.

Type: *E. liturae* (Cke.) Theiss. and Syd.

Characters: Free mycelium, hymenium simple, ascomata linear, spores 2-celled, brown, non-hyphopodiate, paraphysate.

Literature: Ann. Myc. 11:436. 1913.

Synonymous genera: (1) *Maurodothella* Arn., Ann. École Nat. Agr. Montp. 16:123. 1918. Type: *M. psychotriae* Arn., Ann. Crypt. Exot. 4:83. 1931. Syll. Fung. 24:497. This is very close to or identical with Echidnodes. (2) *Balansina* Arn., Ann. École Nat. Agr. Montp. 16:123. 1918. Type: *B. stellata* Arn., Syll. Fung. 24:477. 1926. This appears to be identical with Echidnodes.

1. Echidnodes liturae (Cke.) Theiss. and Syd., *l. c. Lembosia liturae* Sacc., Syll. Fung. 9:1106. *Aulographum liturae* Cke., Grev. 12:38. 1883. On Quercus, Fagaceae. Ascomata 200-700 x 50-80 μ, asci 25-40 x 9-15 μ, spores 7.5 x 3.5 μ.

2. Echidnodes asterinearum Petr. and Cif., Ann. Myc. 28:381. 1930. On Eugenia, Myrtaceae; Asterina, a fungus. Ascomata 100-350 x 65-90 μ, asci 17-22 x 10-13 μ, spores 7-9 x 2.5-3 μ.

3. Echidnodes microspora (Chard.) Seaver and Chard., N. Y. Acad. Sci. 8:22. 1926. *Lembosia microspora* Chard., Mycol. 13:282. 1921. On Ocotea, Lauraceae. Ascomata 250-750 x 100-180 μ, asci 19-23 x 10-13 μ, spores 8-11 x 4-5 μ.

4. Echidnodes cocoes Syd., Ann. Myc. 26:135. 1928. On Cocos, Palmae. Ascomata 90-250 x 70-120 μ, asci 20-25 x 15-20 μ, spores 11-13 x 5-7 μ. Ann. Myc. 28:381. 1930.

5. Echidnodes rhoina Doidge, Trans. Roy. Soc. So. Afr. 8:269. 1920. On Rhus, Anacardiaceae. Ascomata 300-500 x 90-150 μ, asci 35-40 x 20-24 μ, spores 13-16 μ.

6. Echidnodes caespitosa (Cke.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Ailographum caespitosa* Cke., Grev. 8:95. 1897. *Aulographum caespitosa* E. and E., Jour. Myc. 1:151. 1885. *Lembosia caespitosa* Sacc., Syll. Fung. 2:742. 1886. *Lembosia caespitosa* Sacc., Syll. Fung. 9:1107. 1891. On Cypressus, Pinaceae; on unidentified leaves. Ascomata 250-300 μ or 400 x 200-250 μ, asci 45-55 x 10-12 μ, spores 15-17 x 6 μ.

7. Echidnodes heptapleuri (Sacc.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Lembosia heptapleuri* Sacc., Bull. Orto. Bot. Nap. 6:52. 1921. On leaves. Ascomata 300-1000 x 100-120 μ, asci 40 x 12 μ, spores 16 x 5 μ. Syll. Fung. 24:492.

8. Echidnodes pisoniae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:76. 1925. *Maurodothella pisoniae* Arn., Ann. Crypt. Exot. 4:85. 1931.

On Pisonia, Nyctaginaceae. Ascomata 120-125 x 200-500 μ, asci 20-21 x 43-50 μ, spores 7 x 15-18 μ.

9. Echidnodes mammeae Ryan, Mycologia 16:194. 1924. On Mammea, Guttiferae. Ascomata 123-145 x 168-280 μ, asci 17-21 x 24-41 μ, spores 7-10 x 18-19 μ.

10. Echidnodes lirelliformis (Cke.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Aulographum lirelliforme* Cke., Trans. Roy. Soc. Edinb. p. 393. 1887. *Lembosia lirelliformis* Sacc., Syll. Fung. 9:1108. 1891. On Wood. Ascomata 100 x 200 μ, asci 80 x 30 μ, spores 20 x 10 μ.

11. **Echidnodes stellata** (Arn.) Stev., n. comb. *Balansina stellata* Arn., Ann. École Nat. Agr. Montp. 16:123. 1924. On Myrsinaceae. Ascomata 500-1000 μ long, spores 20-20.5 x 9-10 μ.

12. Echidnodes glonioides (Rehm) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Aulographum glonioides* Rehm, Hedw. 39:209. 1900. On Chevaliera, Bromeliaceae. Ascomata 500-1000 μ long, asci 50 x 25 μ, spores 15-18 x 6 or 22-25 x 9-10 μ. Syll. Fung. 16:659.

13. **Echidnodes festucae** (Lib.) Ryan, n. comb. *Lembosia festucae* v. Höhn., Ann. Myc. 15:366. 1917. *Aulographum festucae* Lib., Ard. no. 373, Duby Hyster. p. 38. On Festuca, Gramineae. Ascomata 200-800 x 40-80 μ, asci 18-22 x 8-11 μ, spores 8-9 x 2.5-3 μ, non-hyphopodiate.

14. Echidnodes pachyasca (Bres.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Lembosia pachyasca* Bres., Ann. Myc. 4:312. 1906. On Myrsine, Myrsinaceae. Ascomata 850 x 140 μ, asci 60 x 16 μ, spores 20-22 x 7-8 μ. Syll. Fung. 22:564; Ann. Myc. 11:425. 1913.

15. Echidnodes xenospila Syd., Philipp. Jour. Sci. 21:143. 1922. On Fagraea, Loganiaceae; Meliola, a fungus. Ascomata 350-450 x 120-180 μ, asci 35-45 x 30-35 μ, spores 22-25 x 9-10 μ.

16. Echidnodes baccharidinicola (Rehm) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Lembosia baccharidinicola* Rehm, Ann. Myc. 11:445. 1913. *Lembosia drymidis* Lév., var. *baccharidinicola* Rehm, Ann. Myc. 5:532. 1907, *ibid.* 7:407. 1907. On Baccharis, Compositae. Ascomata 100-1500 μ long, asci 70-80 x 20-25 μ, spores 20-25 x 9-10 μ. Syll. Fung. 22:562.

17. Echidnodes bromeliacearum (Rehm) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Lembosia bromeliacearum* Rehm, Hedw. 39:210. 1900. *Echidnodes bromeliae* Ryan, Mycol. 16:194. 1924. On Aregelia, Bromeliaceae. Ascomata 300 x 100 μ long, asci 40-25 x 30 μ, spores 18-22 x 6-7 μ. *Var.* stellulata (Rehm) Stev., n. comb. *Lembosia bromeliacearum* Rehm, var. *stellulata* Rehm, Pilze Sudamerika 8:210. 1900. *Aulographum maculare* B. and Br., var. *stellulata* Rehm, Hedw. 31:304. 1892. Pilze Sudamerika 5:297. 1898. On Arachnea, Euphorbiaceae, Ananas, Medularium, Guzmannia, Vriesea, Tillandsia, Bromeliaceae. Ann. École Nat. Montp. 16:130. 1918.

18. Echidnodes hypophylla (Syd.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Lembosia hyphophylla* Syd., Ann. Myc. 11:450. 1913. *Lembosia diffusa* Wint., var. *hyphophylla* Syd., Ann. Myc. 2:162. 1904. On Posoqueria, Rubiaceae. Ascomata 0.5 x 0.2 mm., asci 65-80 x 30-36 μ, spores 26-30 x 10-13 μ. Syll. Fung. 17:899; Ann. Myc. 11:452. 1913.

19. **Echidnodes psychotriae** (Arn.) Stev., n. comb. *Maurodothella psychotriae* Arn., Ann. École Nat. Agr. Montp. 16:124. 1918. On Psychotriae, Rubiaceae. Ascomata 0.65-0.9 mm. long, spores 30 x 14.5-15 μ.

20. Echidnodes dendrochili (Lév.) Theiss., Ann. Myc. 15:422. 1917. *Lembosia dendrochili* Lév., Ann. Sci. Nat. 3:59. 1845. Syll. Fung. 2:742. *Lembosia agaves* Earl, Mycologia 13:283. 1921. On Dendrochili, Orchidaceae; Agave, Amaryllidaceae. Ascomata 0.4-0.5 x 0.12-0.16 mm., asci 45 x 28 μ, spores 7-8 x 16-19 μ.

58. ECHIDNODELLA Theissen and Sydow

Annales Mycologici 15:422. 1917.

Type: *E. linearis* Syd.

Characters: Like Echidnodes but aparaphysate.

1. Echidnodella rondeletiae Ryan, Mycologia 16:195. 1924. On Rondeletia, Rubiaceae. Ascomata 228 x 72 μ, asci 27 x 12 μ, spores 7 x 2 μ.

2. Echidnodella raillardiae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:76. 1925. On Raillardia, Compositae. Ascomata 63-72 μ long, spores 3.6 x 8 μ.

3. Echidnodella myrciae Ryan, Mycologia 16:195. 1924. On Myrcia, Myrtaceae. Ascomata 224-336 x 56-78 μ, asci 14-17 x 9-12 μ, spores 5 x 9 μ.

4. **Echidnodella angustiformis** (Tracy and Earle) Stev., n. comb. *Morenoella angustiformis* Theiss. Ann. Myc. 11:444. 1913. *Morenoella ilicis* Theiss., Ann. Myc. 11:451. 1913. *Lembosia angustiformis* Tracy and Earle, Bull. Torr. Bot. Club 22:208. 1896. *Lembosia ilicis* Tracy and Earle, *ibid.* On Ilex, Aquifoliaceae. Ascomata 120-250 x 50-80 μ, asci 16-22 x 10-13 μ, spores 8-10 x 4-5 μ. Syll. Fung. 14:713.

5. Echidnodella linearis (Syd.) Syd., Ann. Myc. 15:422. 1917. *Morenoella linearis* Syd., Ann. Myc. 1:250. 1903. On Cynomatra, Leguminosae. Ascomata 500-1500 x 100-150 μ, asci 30-35 x 14-16 μ, spores 11-13 x 3-4 μ. Syll. Fung. 24:498.

6. Echidnodella hypolepidis Doidge, Trans. Roy. Soc. So. Afr. 8:270. 1920. On Hypolepis, Cyperaceae. Ascomata 120-240 x 50-100 μ, asci 20-25 x 7-10 μ, spores 10-14 x 3.5-5 μ.

7. Echidnodella prinoides (Tracy and Earle) Theiss. and Syd., Ann.

Myc. 15:422. 1917. *Morenoella prinoides* Theiss., Ann. Myc. 11:451. 1913. *Lembosia prinoides* Tracy and Earle, Bull. Torr. Bot. Club 21:176. 1895. On Ilex, Aquifoliaceae. Ascomata 200-350 x 120-150 μ, asci 30-35 x 15-18 μ, spores 10-15 x 4-5 μ. Syll. Fung. 14:713.

8. Echidnodella cavendishiae Toro, Ann. Myc. 32:111. 1934. On Cavendishia, Vacciniaceae. Ascomata 513-618 x 125-171 μ, asci 34-48 x 16-20 μ, spores 13-15 x 6.8 μ.

9. Echidnodella camphorae (Earle) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Morenoella camphorae* Theiss., Ann. Myc. 11:452. 1913. *Lembosia camphorae* Earle, Bull. Torr. Bot. Club 26:123. 1900. On Camphora, Lauraceae. Ascomata 500 x 100 μ, asci 25 x 20 μ, spores 18 x 6 μ. Syll. Fung. 16:663.

10. Echidnodella fourcroyae Ryan, Mycologia 16:195. 1924. On Fourcroya, Amaryllidaceae. Ascomata 112-168 x 324-336 μ, asci 24-28 x 33-36 μ, spores 9 x 17 μ.

11. Echidnodella miconiae Ryan, Mycologia 16:195. 1924. On Miconia, Melastomataceae. Ascomata 81-185 x 105-125 μ, asci 14-15 x 24-37 μ, spores 3-4 x 17-20 μ.

12. Echidnodella rugispora (Tracy and Earle) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Morenoella rugispora* Theiss., Ann. Myc. 11:452. 1913. *Lembosia rugispora* Tracy and Earle, Bull. Torr. Bot. Club 22:208. 1896. On Persea, Lauraceae. Ascomata 400 x 100 μ, asci 30-45 x 7-8 μ, spores 15-20 x 8-10 μ. Syll. Fung. 14:712.

13. Echidnodella cocculi Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:76. 1925. *Maurodothella cocculi* (Stev. and Ryan) Arn., Ann. Crypt. Exot. 4:84. 1931. On Cocculus, Memispermaceae. Ascomata 500-650 x 200-284 μ, asci 14-18 x 36-41 μ, spores 21-23 x 7-9 μ.

14. Echidnodella diaphana Toro, Ann. Myc. 32:111. 1934. On Conomorpha, Myrsinaceae. Ascomata 239-371 x 137-171 μ, asci 38-45 x 31-34 μ, spores 20-22 x 9-12 μ.

15. Echidnodella mabae Stev. and Ryan, Bernice P. Bishop Mus. Bul. 19:76. 1925. *Lembosia mabae* (Stev. and Ryan) Arn., Ann. Crypt. Exot. 4:84. 1931. On Maba, Ebenaceae. Ascomata 397 x 227 μ, asci 54 x 33 μ, spores 21.6 x 7 μ.

16. Echidnodella melastomacearum Ryan, Mycologia 16:195. 1924. On Miconia, Melastomataceae. Ascomata 240-252 x 168-192 μ, asci 41-60 x 29-36 μ, spores 24-26 x 9 μ.

17. Echidnodella marattiae (Rac.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Morenoella marattiae* Rac., Parasit. Algen und Pilze Javas 2:19. 1900. On Marattia, Pteridophyta. Ascomata 0.3 mm. long, asci 36-40 x 20-22 μ, spores 26-28 x 5 μ. Syll. Fung. 16:654.

18. **Echidnodella ramosii** (Syd.) Stev., n. comb. *Morenoella ramosii*

Syd., Ann. Myc. 12:560. 1914. On Pentacme, Dipterocarpaceae. Ascomata 250-400 μ, asci 50-75 x 40-60 μ, spores 32-38 x 17-20 μ, aparaphysate. Syll. Fung. 24:499.

19. Echidnodella dipterocarpi (Henn.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Morenoella dipterocarpi* Theiss., Ann. Myc. 11:457. 1913. *Lembosia dipterocarpi* Henn., Hedw. 47:261. 1907. On Dipterocarpus, Dipterocarpaceae. Ascomata 300-500 μ, asci 70-80 x 50-64 μ, spores 40-50 x 18-24 μ. Syll. Fung. 22:561.

20. Echidnodella reticulata (Starb.) Theiss. and Syd., Ann. Myc. 15:422. 1917. *Morenoella reticulata* Starb., Bih. K. Svensk. Vet.-Akad. Handl. 25:18. 1899. Afd. 3, no. 1, tab. 1, fig. 30. On Vismia, Guttiferaceae. Ascomata 250-400 x 75-100 μ, asci 46-50 x 40-44 μ, spores 30-32 x 18-19 μ. Syll. Fung. 16:653.

59. SYMPHASTER Theissen and Sydow

Annales Mycologici 13:217. 1915.

Type: *S. gesneraceae* (Henn.) Theiss. and Syd.

Characters: Free mycelium, hymenium simple, ascomata radiate, spores 2-celled, brown, aparaphysate, non-hyphopodiate.

Literature: Ann. Myc. 15:418. 1917.

1. Symphaster gesneraceae (Henn.) Theiss. and Syd. *l. c. Cocconia gesneraceae* Henn., Hedw. 43:91. 1904. On leaves, Gesneraceae. Ascomata 1 mm. in diameter, asci 40-50 x 20-24 μ, spores 18-20 x 8-10 μ.

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21. ————, Fungi amazonici III, a cl. E. Ule collecti, Hedwigia 43:350-400. 1904.
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LIST OF EXCLUDED SPECIES

(Numbers in parentheses refer to items in the bibliography)

Asterina
- agaves Ell. & Ev. (86), to Perisporiaceae
- aliena Ell. & Gallow (86)
- alsophilae Dur. & Mont. (86), to Polystomella
- ammophilae Dur. & Mont. (86), to Sphaerella
- angraeci Roum. (86), to Asteroma—immature
- anomala Cke. & Harkn. (86), immature
- appendiculosa (M. & B.) Mont. (86), to Dothidiaceae
- asperata B. & C. (86), unripe
- barleriae Pat. (86), to Perisporiaceae
- bignoniae Ell. & Ev. (86), to Perisporiaceae
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  - Microthyrium erysiphoides microscopicum thyriascum
  - Morenoella quercina
  - Myiocopron flicinum

Flacourtiaceae
- Genus unknown
  - Caudella oligotricha
  - Phragmothyrium scheffleri
- Azara
  - Asterina azarae
- Casearia
  - Asterina juruana solanicola var. cristata
  - Myiocopron casearíae
- Flacourtia
  - Asterina flacourtiae spectabilis

Flacourtiaceae (continued)
- Hydnocarpus
  - Asterinella hydnocarpi
- Kiggelaria
  - Asterina celtidicola var. microspora
- Oncoba
  - Asterina celtidicola var. microspora
  - Chaetothyriopsis panamensis
- Scolopia
  - Asterina cylindrophora scolopiae
  - Microthyrium ranulisporum
- Trimeria
  - Asterina delicata
- Xylosma
  - Asterina plectroniae
  - Parasterina tonduzi

Fungi
- Asterina sp.
  - Echidnodes asterinearum
- Balladyna
  - Asterinella lembosioides
- Meliola
  - Asterinella lembosioides
  - Echidnodes xenospila
- Parodiopsis?
  - Mycolangloisia echinata

Gentianaceae
- Goeppertia
  - Lembosia microtheca

Gesneraceae
- Genus unknown
  - Symphaster gesneraceae
- Gesneria
  - Asterina dilabens punctiformis
- Mitraria
  - Asterina mitrariae
- Rhytidophyllum
  - Asterina dilabens
- Sarmienta
  - Asterina dilabens
- Streptocarpus
  - Asterina streptocarpi

Goodeniaceae
- Scaevola
  - Calothyriopeltis scaevolae

Gramineae
- Genus unknown
  - Asterina libertiae
  - Prillieuxina asterinoides
- Andropogon
  - Aulographum culmigenum
- Arundinaria
  - Aulographum arundinariae
- Arundo
  - Asterina libertiae
  - Aulographum donacicola
  - Microthyrium mauritanicum

Gramineae (continued)
- Bambusa
  - Aulographum bambusinum
  - Pycnoderma bambusinum
    - circinans
- Bromus
  - Aulographum bromi
- Calamagrostis
  - Microthyrium culmigenum
- Chusquea
  - Aulographum chusqueae
- Festuca
  - Calothyrium antarcticum
  - Echidnodes festucae
- Imperata
  - Aulographum maximum
  - Caenothyrium alang-alang
- Poa
  - Morenoina australis
- Penicellaria
  - Microthyrium senegalense
- Psamma
  - Microthyrium graminum
- Schizostachyum
  - Pycnoderma bambusinum
- Spartina
  - Seynesia pulchella

Guttiferaceae
- Calophyllum
  - Microthyrium calophylli
  - Lembosia sepotae
- Clusia
  - Asterina solanicola var. cristata
  - Aulographum ciliatum
- Garcinia
  - Phragmothyrium garciniae
- Mammea
  - Aulographum melioloides
  - Echidnodes mammeae
- Rheedia
  - Asterina tropicales
  - Phragmothyrium rheediae
- Viamia
  - Echidnodes reticulata

Hamamelidaceae
- Trichocladus
  - Lembosia piriensis

Hippocrataceae
- Genus unknown
  - Asterinella hippeastri
- Hippeastrum
  - Asterinella hippeastri
- Hippocratea
  - Asterina hippocrateae
  - Asterinella hippeastri
  - Calothyrium hippocrateae
- Salacia
  - Asterina salaciae

Host unknown
- Asterina carbonacea
  - circularis
  - gibbosa
  - kauaiensis
  - laxa
  - lepiniana
  - megalocarpa
  - radio-fissilis var. macrospora
  - ramonensis
  - stricta
  - subinermis
  - versipoda
- Aulographum microthyrioideum
  - spilomoides
  - subconfluens
- Calothyrium subcolliculosum
- Clypeolina apus
- Echidnodes caespitosa
  - heptapleuri
  - lirelliformis
- Microthyrium boivini
  - exarescens
  - puntiforme
- Morenoella cestri
  - decalvans var. langeriae
  - macrospora
  - psychotriae
  - puiggarii
- Parasterina colliculosa var.
    - macrospora
  - consimilis
  - tayabensis
- Peltella affine
- Prillieuxina lepidotricha
  - quinta
  - tjibodensis
- Scutellum paradoxum
- Seynesia brasiliensis
  - circinans
  - disciformis
  - pachysperma
  - rimosa
- Stegothyrium denudans
- Stephanotheca sydowii

Humiriaceae
- Humiria
  - Prillieuxina humiriae

Icacinaceae
- Mappia
  - Asterina mappiae
- Platea
  - Asterina escharoides
- Villaresia
  - Pycnoderma villaresiae

Iridaceae
- Libertia
  - Asterina libertiae

Juncaceae
- Juncus
  - Lembosia juncina
- Luzula
  - Lembosia luzulae
- Rostkovia
  - Morenoina antarctica

Labiatae
- Gardoquia
  - Asterina ildefonsiae
- Hyptis
  - Asterina carbonaceae var. huallagenesis
- Phyllostegia
  - Asterina phyllostegiae
- Teucrium
  - Microthyrium fuscellum
- Thymus
  - Aulographum canepae

Lauraceae
- Genus unknown
  - Asterina aemula insignis
  - Lembosia microtheca
  - Morenoella ampullifera var. meizospora
  - Seynesia piraguensis
- Aniba
  - Calothyrium jodascum
- Beilschmiedia
  - Morenoella beilschmiediae
- Camphora
  - Echidnodella camphorae
- Cinnamomum
  - Asterina cinnamomi
- Cryptocarya
  - Lembosia microtheca
  - Microthyriolum astomum
  - Prillieuxina cryptocaryae woodiana
- Laurus
  - Calothyrium aspersum
  - Myiocopron ramulare
- Litsea
  - Asterina verae-crucis
  - Lembosia nervisequa
  - Parasterina litseae
- Nectandra
  - Asterina ampullifera phoebes
  - Morenoella ampullifera
- Neolitsea
  - Asterina neolitseae
  - Morenoella lagunensis
- Nothophoebes
  - Polythyrium microchita
- Ocotea
  - Asterina ocotearum
  - Echidnodes microspora
  - Halbaniella portoricensis
  - Lembosia microspora
  - Microthyrium ekmanii

Lauraceae (continued)
- Morenoella phillipsii portoricensis
- Persea
  - Asterina tenella
  - Calothyrium apiahynum
  - Echidnodella rugispora
  - Microthyriolum apiahynum
  - Microthyrium microscopicum var. majus
    - var. minor
- Phoebe
  - Aphanopeltis phoebes
  - Asterina hamata phoebes poliothea
  - Calothyrium vile

Leguminosae
- Genus unknown
  - Asterina balansae var. macrospora
  - Lembosia radiate
- Apuleia
  - Seynesia apuleiae
- Caesalpinia
  - Asterina ciferriana
  - Myiocopron granulatum
  - Phragmothyrium caesalpiniae
- Calliandra
  - Asterinella brasiliensis
  - Prillieuxina flexuosa
- Cassia
  - Asterina elaeocarpi
- Castanospermum
  - Parasterina platystoma
- Cynomatra
  - Echidnodella linearis
- Cytisus
  - Microthyrium cytisi
- Derris
  - Asterina derridis singaporensis trachycarpa
  - Asterinella gracilis
- Dipteryce
  - Myiocopron cubense
- Erythrophaleum
  - Morenoella erythrophlaei
- Herpetica
  - Asterina elaeocarpi
- Holocalyx
  - Parasterina holocalycis
- Hovea
  - Asterina hoveaefolia
- Inga
  - Calothyrium ingae
  - Thallochaete ingae
- Millettia
  - Microthyrium millettiae
- Myroxylon
  - Myiocopron pereirae
- Pongamia
  - Asterina derridis

Leguminosae (continued)
- Sarothamus
  - Seynesia pulchella
- Sclerolobium
  - Lembosia sclerolobii
- Securigera
  - Morenoella whetzelli
- Sophora
  - Lembosia graphioides var. sophorae
- Sweetia
  - Parasterina bredmeyerae
- Zollernia
  - Parasterina melastomataceae

Lichenes
- Cetraria
  - Micropeltopsis cetraricola
  - Microthyrium cetrariae
- Chaltachma
  - Lembosia durbana

Lilliaceae
- Cordyline
  - Prillieuxina amboinensis
- Dracaena
  - Lembosia patouillardi
- Sanseviera
  - Lembosia saccardoana
- Smilax
  - Peltella smilacis
  - Platypeltella smilacis

Longaniaceae
- Chilianthus
  - Asteromyxa inconspicua
- Fagraea
  - Echidnodes xenophilae
  - Morenoella fagraeae
- Strychnos
  - Asterina strychni

Loranthaceae
- Genus unknown
  - Asterina sphaerelloides
- Loranthus
  - Asterina loranthicola
  - Microthyrium loranthi
  - Prillieuxina loranthi
- Phoradendron
  - Asterinella phoradendri
  - Prillieuxina phoradendri

Lythraceae
- Cuphea
  - Asterina cupheae
- Lawsonia
  - Asterina lawsoniae

Magnoliaceae
- Drymis
  - Asterinella drymidis
  - Seynesia australis
    - olivascens
    - scutellum

Magnoliaceae (continued)
- Ilicium
  - Aulographum hederae
  - Lembosia illiciicola
- Magnolia
  - Phragmothyrium alabamensis

Malpighiaceae
- Genus unknown
  - Asterinella multilobata
  - Cirsosia manaosensis
  - Phragmothyrium erysiphoides
- Banisteria
  - Asterina banisteriae
- Brysonima
  - Asterina brysonimae
  - Asterinella uleama
- Heteropteris
  - Asterina couepiae
- Hirea
  - Asterinella leptotheca
- Malpighia
  - Asterina indecora
- Stigmatophyllum
  - Morenoella decalvans var. stigmatophylli

Malvaceae
- Abutilon
  - Asterina diplocarpa
- Malvastrum
  - Asterina solanicola var. cristata
- Pavonia
  - Asterina pavoniae
    - solanicola var. cristata
- Sida
  - Asterina diplocarpa

Marantaceae
- Genus unknown
  - Lembosia microtheca
- Donax
  - Aulographum donacis

Melastomataceae
- Genus unknown
  - Asterina pulla
  - Asterinella puiggarii
  - Lembosia melastomatum var. maublancii
    - var. puttemansii
  - Microthyrium melastomacearum
  - Morenoella melastomacearum
  - Parasterina hypophylla
    - maublancii
    - melastomaceae
    - myiocoproides
  - Prillieuxina melastomacearum
- Arthrostemma
  - Asterina confertissima
- Astronia
  - Parasterina astroniae
- Bellucia
  - Asterina belluciae

Melastomataceae (continued)
- Blakea
  - Asterina denigrata
  - Parasterina sydowi
- Clidemia
  - Asterina schlechteriana venezuelana
  - Calothyrium jahnii
  - Parasterina miconiae
- Conostegia
  - Asterina amadelpha
- Hirtella
  - Asterina inaequalis
- Memecylon
  - Asterina memecyloniae
  - Lembosia memecyli
- Miconia
  - Asterina belluciae camelliae chrysophyli correacola guianensis melastomacearum miconiae theissenia uribei
  - Aulographum culmigenum
  - Echidnodella melastomacearum miconiae
  - Lembosia catervaria melastomatum miconiicola rolliniae sclerolobii
  - Morenoella dothideoides var. impetiolaris giganteae melastomacearum miconiae miconicola pothodei var. laevigatae
  - Parasterina melastomataceae melastomatis miconiae transiens
  - Prillieuxina antioquensis
- Tamonea
  - Asterina guianensis
- Tetrazygia
  - Asterina dilabens tetrazygiae
- Tibouchina
  - Englera ulei
- Webera
  - Lembosia incisa

Meliaceae
- Genus unknown
  - Asterina opposita
- Cipadessa
  - Parasterina cipadessae
- Dysoxylon
  - Asterinella dysoxyli
- Guarea

Meliaceae (continued)
  - Asterina guaranitica
- Mallea
  - Asterina sphaerotheca var. prodige
- Melia
  - Asterina sphaerotheca var. prodige
- Trichilia
  - Asterina guaranitica silvatica trichiliae

Menispermaceae
- Anamirta
  - Prillieuxina anamirtae
- Cocculus
  - Echidnodella cocculi
- Pachygone
  - Morenoella decalvans
- Stephania
  - Morenoella samarensis

Monimiaceae
- Mollinedia
  - Lembosia brenesii
  - Morenoella myrtacearum

Moraceae
- Dorstenia
  - Asterina dorsteiniae
- Ficus
  - Seynesia ficina
- Maclura
  - Asterina balansae f. Maclurae consociata
- Malaisia
  - Asterina malaisiae
- Taxotrophis
  - Stephanotheca micromera

Myrsinaceae
- Genus unknown
  - Echidnodes stellata
- Ardisia
  - Phragmothyrium fimbriatum
  - Pycnopeltis bakeri
- Myrsine
  - Calothyrium nebulosum
  - Echidnodes pachyasca
  - Phragmothyrium myrsines
- Rapanea
  - Asterina aphanes
  - Lembosia opaca rapaneae
- Suttonia
  - Asterina suttoniae
  - Beelia suttoniae
  - Calothyrium suttoniae

Myrtaceae
- Genus unknown
  - Asterina balansae
  - Lembosia natalensis
  - Microthyriolum circinans

Myrtaceae (continued)
- Morenoina inaequalis
- Parasterina puttemansii
- Phragmothyrium manaosensis
- Seynesia olivascens
  - variolosa
- Calyptranthes
  - Asterinella caaguagensis
- Campomanesia
  - Asterinella caaguagensis
  - Aulographum myrtaceae
- Eucalyptus
  - Aulographum eucalypti
  - Lembosia eucalypti
  - Lembosiopsis eucalyptina
  - Microthyrium amygdalinum
    - eucalypticola
  - Seynesia microthyrioides
- Eugenia
  - Asterina assimilis
    - ditissima
    - fawcetti
    - myrciae
  - Caudella psidii
- Echidnodes asterianearum
  - Lembosia eugeniae
    - robinsonii
    - tenella
  - Microthyrium virescens
  - Morenoella myrtacearum
    - tenuis
  - Morenoina microscopica
  - Parasterina brachystoma
    - colliculosa
    - eugeniae
    - myrtacearum
    - pemphidioides
    - ramosii
  - Peltella valdivianum
  - Prillieuxina cylindrotheca
  - Seynesia chilensis
    - eugeniae
- Leptospermum
  - Microthyrium corynellum
- Metrosideros
  - Asterina rickii
  - Asterinella sublibera
  - Calothryiopeltis metrosideri
- Myrceugenia
  - Asterinella cupressina
  - Prillieuxina cylindrotheca
- Myrcia
  - Asterina myrciae
  - Asterinella uleana
  - Echidnodella myrciae
- Myrrhinium
  - Asterinella caaguazensis
    - puiggarii
  - Calothyrium confertum
- Myrti
  - Aulographum inconspicuum
- Psidium
  - Asterina crustacea
    - psiddi
  - Caudella psidii

Myrtaceae (continued)
- Lembosia patouillardi
- Syzygium
  - Asterina quarta
- Temu
  - Campoa pulcherrima

Nyctaginaceae
- Pisonia
  - Echidnodes pisoniae
  - Prillieuxina intensa
- Ramisia
  - Prillieuxina amazonica

Ochnaceae
- Genus unknown
  - Lembosiella polyspora

Olacaceae
- Olax
  - Asterina oligocarpa

Oleaceae
- Jasminium
  - Asterina lepiniana
    - spissa
  - Parasterina jasminicola
- Olea
  - Aulographum hederae
    - var. oleae
  - Lembosiopsis oleae
  - Morenoina graphioides
  - Phragmothyrium oleae
- Osmanthus
  - Calothyriella osmanthi
  - Calothyrium osmanthi
  - Prillieuxina intensa
- Phillyreae
  - Aulographum hederae

Onagraceae
- Epilobium
  - Aulographella epilobii

Opilliaceae
- Casjera
  - Asterina casjerae
    - echinospora
- Opilia
  - Asterina crebra

Orchidaceae
- Genus unknown
  - Scutellum javanicum
- Ansellia
  - Asterina raripoda
- Apostasia
  - Phragmothyrium schmidtiana
- Dendrochilus
  - Echidnodes dendrochili
- Epidendron
  - Asterinella epidendri
  - Morenoella calami
- Liparis
  - Asterina liparidis

Orchidaceae (continued)
- Oncidium
  - Myiocopron corrientinum
- Stigmatostalycis
  - Myiocopron stigmatostalycis
- Vanilla
  - Lembosia rolfsii
- Warscewiczia
  - Lembosia warscewicziae

Oxalidaceae
- Averrhoa
  - Asterina venustula

Palmae
- Genus unknown
  - Asterina subglobulifera transversalis
  - Aulographum atro-maculans
  - Myiocopron cilatatum crustaceum palmarum
- Calamus
  - Cirsosiella globulifera transversalis
  - Lembosia microcarpa
  - Morenoella calami
  - Peltella conjuncta
  - Prillieuxina calami
  - Seynesia calamicola
  - Yatesula calami
- Chamaedorea
  - Lembosia poasensis
- Cocos
  - Echidnodes cocoes
- Daemonorops
  - Asterina bakeri
  - Aulographum fimbriatum
  - Cirsosiella transversalis
  - Peltella conjuncta
- Diplothemium
  - Lembosia diplothemii
- Elais
  - Seynesia nobilis
- Pinanga
  - Asterinella saginata
- Sabal
  - Asterina sabalicola

Pandanaceae
- Freycinetia
  - Myiocopron freycinetiae
  - Seynesia atkinsonii
- Pandanus
  - Aulographum intricatum pandani
  - Lembosia pandani
  - Myiocopron pandani

Passifloraceae
- Modecca
  - (Adenia) Englera atrides
- Passiflora

Passifloraceae (continued)
  - Asterina arnaudia
    - azarea var. passiflorae
    - megalospora var. meizopoda
    - perconferta
    - platasca
  - Peltella bakerianum
- Tacsonia
  - Asterina tacsoniae

Pinaceae
- Abies
  - Microthyrium abietis
- Cupressus
  - Asterinella cupressina
  - Echidnodes caespitosa
- Juniperus
  - Myiocopron baccarum
  - Seynesia juniperi
- Pinus
  - Aulographum pinorum
  - Calothyriella pinophylla
  - Calothyrium pinastri
  - Kriegeriella mirabilis transiens
- Tsuga
  - Microthyrium harrimani

Piperaceae
- Peperomia
  - Calothyrium (?) bullatum
- Piper
  - Asterina piperina

Pirolaceae
- Pyrola
  - Phragmothyrium carniolica

Pittosporaceae
- Pittosporum
  - Asterina densa effusa escharoides robusta

Polygalaceae
- Bredmeyera
  - Parasterina bredmeyerae
- Elsota
  - Morenoella whetzelii
- Securidaca
  - Asterina pulchella

Polygonaceae
- Coccoloba
  - Asterina coccolobae
  - Lembosia tenella patouillardi portoricensis
  - Lembosidium portoricense
  - Seynesia coccolobae megalothecia

Proteaceae
- Cenarrhenes
  - Auglographum proteacium
- Grevillea
  - Englera gymnosporiae
- Hakea
  - Englerulaster baileyi
- Quadria
  - Aulographum quadriae
- Roupala
  - Ptychopeltis roupalae

Pteridophytes
- Genus unknown
  - Aulographum tropicale
  - Morenoina serpens
- Aspidium
  - Asterina aspidii
- Cyathea
  - Halbania cyathearum
- Dryopteris
  - Morenoina africana
- Hymenophyllum
  - Phragmothyrium hymenophylli
- Lycopodium
  - Myiocopron lycopodii
- Marattia
  - Echidnodella marattiae
  - Phragmothyrium marrattiae
- Neprolepis
  - Lembosia longissima
- Phegopteris
  - Microthyrium phegopteridis
- Psilotum
  - Peltella millepunctata
- Pteris
  - Microthyrium litigiosum
- Trichomanis
  - Phragmothyrium trichomanis

Rafflesiaceae
- Hypolepis
  - Echidnodella hypolepidis

Rammirtaceae
- Raumirta
  - Asterinella multilobata

Rapanaceae
- Genus unknown
  - Seynesia santandariana

Rhamnaceae
- Rhamnus
  - Asterina rhamnicola uncinata
- Trevoa
  - Calothyrium jaffuelianum
- Zizyphus
  - Asterina zizyphiae

Rosaceae
- Angelesia
  - Asterina nodulifera

Rosaceae (continued)
- Banksia
  - Prillieuxina systema-solare
- Chrysobalanus
  - Asterina schroeteri
  - Asterinella uleana
- Couepia
  - Asterina couepiae
- Dryas
  - Calothyrium dryadis
- Hirtella
  - Phragmothyrium hirtellae
- Licania
  - Asterina inaequalis schroeteri var. licaniae
- Photinia
  - Aulographum hederae var. photiniae
- Potentilla
  - Microthyrium arcticum
- Prunus
  - Microthyrium epimyces
  - Prillieuxina cryptocaryae
- Rubus
  - Asterina balansae var. africana
  - Aulographum confluens valdivianum
  - Calothyrium versicolor

Rubiaceae
- Genus unknown
  - Lembosia rubiacearum
- Alberta?
  - Asterina gibbosa var. megathyria
- Basanacantha
  - Asterina gibbosa
- Burchellia
  - Prillieuxina burchelliae
- Canthium
  - Parasterina canthii
- Cassupa
  - Lembosia cassupae
- Coffea
  - Microthyrium laurenti
  - Phragmothyrium coffeicola
- Exostema
  - Lembosia domingensis
- Genipa
  - Asterina genipae
- Gonzalea
  - Asterina ekmanii oligopoda
- Gouldia
  - Asterina gouldiae
- Grumilea
  - Morenoella oxyanthae
  - Parasterina laxa
- Hillia
  - Asterina dilabens
- Ixora
  - Asterina ixorae
  - Asterinella ixorae lugubris
  - Prillieuxina distinguenda

Rubiaceae (continued)
- Krausia
  - Asterina radio-fissilis
- Langeria
  - Morenoella langeriae
    - decalvans var. langeriae
- Oxyanthus
  - Morenoella oxyanthae
  - Parasterina laxa
- Palicourea
  - Asterina erebia
- Pavetta
  - Asterina gibbosa var. megathyria
    - lipiniana
  - Lembosia pavettae
    - var. luzonensis
  - Microthyrium gomphisporum
- Plectronia
  - Asterina gibbosa var. megathyria
    - plectroniaecola
    - xylosmae
  - Asterinella lembosioides
    - palavanensis
  - Parasterina laxa
- Posoqueria
  - Echidnodes hypophylla
  - Lembosia melastomatum
- Psychotria
  - Asterina psychotriae
  - Calothyrium pasychotriae
    - ryani
  - Echidnodes psychotriae
  - Microthyrium psychotriae
- Randia
  - Asterina gibbosa var. megathyria
  - Lembosia philippinensis
- Rondeletia
  - Asterina advenula
  - Echidnodella rondeletiae
  - Morenoella decalvans var.
    - rondeletiae
- Sickingia
  - Lembosia pittierii
- Tricalysia
  - Asterina gibbosa var. megathyria
  - Phragmothyrium distinctum
- Urophyllum
  - Asterina platypoda

Rutaceae
- Genus unknown
  - Microthyrium acervatum
- Aegle
  - Asterina delicatula
- Clausena
  - Asterina clausenicola
- Correa
  - Asterina correaecola
- Dictyoloma
  - Asterina dictyolomatis
- Fagara
  - Parasterina fagarae
- Glycosmis
  - Asterina banguiensis

Rutaceae (continued)
- Pilocarpus
  - Scutellum guaraniticum
- Rhabdodendron
  - Parasterina rhabdodendri
- Xanthoxylum
  - Seynesia olivascens

Sabiaceae
- Champereia
  - Asterina decipiens
    - elmeri
- Meliosma
  - Asterina meliosmaticola
- Osyridicarpus
  - Asterina polythryria
- Santalum
  - Asterina congesta

Sapindaceae
- Genus unknown
  - Asterina carbonacea var. huallagensis
  - Microthyrium paraguayense
- Guioa
  - Lembosia inconspicua
- Mischocarpus
  - Microthyrium mischocarpi
- Paullinia
  - Prillieuxina multilobata
- Schmidelia
  - Asterina guaranitica

Sapotaceae
- Genus unknown
  - Asterina paraguayensis
- Calophyllum
  - Lembosia sepotae
  - Microthyrium calophylli
- Chrysophyllum
  - Asterina carbonacea var.
    - acanthopoda
    - chrysophyli
    - opaca
    - sydowiana
- Dipholis
  - Asterina dipholdis
- Micropholis
  - Asterina sydowiana
- Mimusops
  - Prillieuxina minusopsidis
- Sideroxylon
  - Asterina diaphorella
    - laxiuscula
  - Parasterina implicata
    - saccardoana

Saxifragaceae
- Genus unknown
  - Clypeolla stellata
- Escallonia
  - Asterina negeriana
- Polyosma
  - Parasterina melanotes

Scrophylariaceae
- Ildefonsia
  - Asterina balansae
    - ildefonsiae
- Veronica
  - Asterina veronicae

Simarubaceae
- Picrasma
  - Asterina lobata
  - Polythyrium costaricense

Solonaceae
- Genus unknown
  - Microthyriolum oligosporum
- Acnistus
  - Calopeltis acnisti
- Cestrum
  - Asterina coriacella
    - diplocarpa var. cestricola
    - solanicola var. cristata
    - vagans var. subreticulata
  - Asterinella leptotheca
  - Aulographum cestri
- Jochroma
  - Seynesia iochromatis
- Solanum
  - Asterina balansae f. solani
    - verbascifolii
    - f. solani
    - benguetensis
    - consobrina
    - dilabens
    - diplopoda
    - effusa
    - henningsii
    - portoricensis
    - solanicola var. cristata
    - solanicoloides
    - vagans
      - var. subreticulata
  - Asterinella brasiliensis
    - leptotheca
  - Calothyrium leptosporum
  - Clypeolella solani
  - Prillieuxina diaphana

Sterculiaceae
- Büttneria
  - Asterina büttneriae
- Cola
  - Parasterina africana
- Helicteres
  - Asterina leptalea
- Lasiopetalum
  - Actinomyxa australiensis

Styracaceae
- Styrax
  - Asterina dispar
    - guaranitica
    - styracina
  - Asterinella uleana
  - Microthyrium styracis

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- Parasterina brachystoma
- Trichasterina styracis

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- Genus unknown
  - Prillieuxina cryptocaryae
- Symplocus
  - Asterina grammocarpa
    - indica
    - sodalis
  - Calopeltis tetraspora

Taxaceae
- Dacrydium
  - Microthyrium microscopicum

Theaceae
- Camellia
  - Asterina camelliae
- Eurya
  - Aulographum euryae

Thymelaceae
- Daphne
  - Seynesia pontica
- Phaleria
  - Asterina bataanensis

Tilliaceae
- Corchorus
  - Asterina diplocarpa
- Tilia
  - Lembosina copromya
- Triumfetta
  - Asterina isothea
    - triumfettae

Turneraceae
- Turnera
  - Asterina solanicola var. cristata

Ulmaceae
- Celtis
  - Asterina celtidicola
- Sponia
  - Asterina sponiae
- Trema
  - Asterina sponiae

Umbelliferae
- Angelica
  - Asterina pittieri
  - Microthyrium angelicae
- Foeniculum
  - Peltella argentinense

Urticaceae
- Leucosyke
  - Asterina phaleriae
  - Prillieuxina capizensis
    - microspila
- Phenax
  - Asterina phenacis
- Pipturus
  - Asterina pipturi

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  - Echidnodella cavendishiae

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  - Asterinella gmelinae
- Premna
  - Asterina pusilla
  - Asterinella creberima
- Tamonea
  - Lembosia rolliniae
- Vitex
  - Asterina sphaerotheca var. prodige

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  - Seynesia melanosticta
- Rinorea
  - Asterina vagans var. subreticulata
- Viola
  - Asterina undulata violae

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  - Parasterina spinosa
- Leea
  - Calothyrium aphanellum

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